NOTE BOOK OPTIONAL 4TH GRADE STUDENTS

"Overcoming functional illiteracy through ICT, to ensure social and professional integration"
2020-1-RO01-KA201-080152

DIGITAL LITERACY

OFI-ICT-PSI

2020-2023

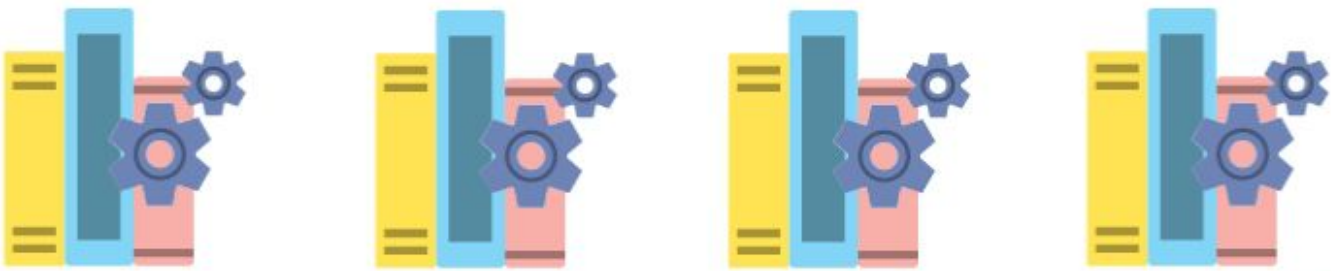
Erasmus+

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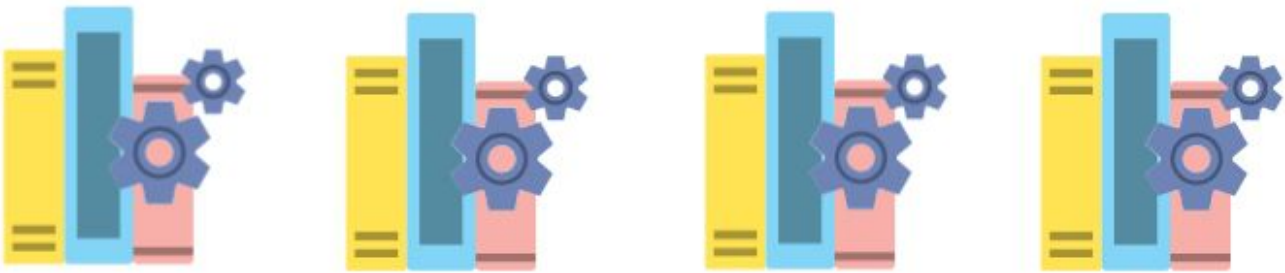


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6. School supplies



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Name of the optional:
Digital literacy

Trans-curricular approach:
Literature, Mathematics and Science

Duration: *1 school year*

Grade: *fourth grade*



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Argument

This optional is one of the products of the learning activities conducted within the frame work of the Erasmus + Strategic Partnership „Overcoming functional illiteracy through ICT, to ensure social and professional integration", reference number: 2020-1-RO01-KA201-080152, funded by the European Committee. It aims to train and develop the literacy, math and science skills of fourth graders. The course is designed as a program to further prepare students for the national assessment provided by the national curriculum at the end of the school year. It also aims at preventing and reducing functional illiteracy among students.

Students need this optional so that they can develop their key competences provided by the national education law, as well as the general competences established at partnership level, according to the national curriculum of the project partner countries.

The learning activities inside this optional fallow the structure of the tests used for the national evaluation, which is based on an international assessment tool, PISA tests. Studies have shown that Romania has a increasing percent of functional illiteracy students, the rate being over 40%, at the last PISA testing. By the use of this optional, students will develop their literacy skills, having a better chance to get a higher mark in their national evaluation.

At the end of each learning unit, students will be evaluated using the standard tests created within the project for the prevention and overcoming of functional illiteracy. This will help teachers to identify the students at risk of becoming illiterate, in the early stages, so that they can develop and implement remedial plans for the identified students.

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Argument

The optional has a digital component, which will determine the development of students' digital skills. The covid pandemic has shown that we need to invest time and energy in training teachers and students in this regard. The created workbook, available not only in text but also in digital format, is a support material for teachers, in which new methods and tools for working with students are inserted.

In an integrated manner, this elective places students in various learning situations with an emphasis on literature, mathematics, and science. The Romanian language is the soul of education, on the knowledge of which the acquisition of all knowledge is based. It is the specific way of reflecting reality, expressing thoughts and feelings, the main means of communication, influencing and coordinating actions, the most valuable tool of knowledge, with a decisive role in achieving social cohesion and progress. Without adequate acquisition of language we cannot talk about the intellectual development of schoolchildren. Their preparation for all other subjects and their preparation for a good socio-professional integration is determined by the degree of language acquisition.

Mathematics is the foundation, the basis for many sciences, and for children, the little mathematicians, a starting point. Using the game, during optional lessons, learning becomes more attractive and easier, generating the development of intuitive thinking. Experience says that learning math is easier and more enjoyable if you use math activities and games. Emphasis should be placed on developing clarity of mathematical concepts from early childhood, beginning in primary school. If the teacher fails in this area, then the child will develop an aversion to mathematics as they progress through high school. To explain a mathematical concept, the teacher should use pictures, diagrams and models as much as possible. This process is considered complete if it addresses both the student's hearing and vision.

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Argument

Science is the driving force behind us and is the undisputed source of progress. Throughout time, humans have created, discovered and learned, which has ensured evolution. Scientific discoveries and new technologies have completely changed our lives, something that students will become more aware of by taking this elective. Students will learn that both research and invention are based on human curiosity, human creative potential and determination. Students will play the role of discoverer, invent, apply, and appreciate the utility of that discovery.

This optional is an opportunity to develop students' general culture, stimulate their curiosity and cultivate their perseverance. To meet students' learning needs and interests, the elective also includes outdoor learning activities and experiential learning activities. Thus, each vision unit will include a documentary visit/outdoor activity and an experiment, giving students the opportunity to make a connection between what they learn in the classroom and the outside world, to put into practice the acquired theoretical notions.

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COMPETECES

LITERATURE

1. Reads, writes, listens and discusses simple texts at an appropriate level
2. Receives, expresses and writes different simple messages/texts on various topics using acquired vocabulary items
3. Completes forms and tables by following instructions and using information from different media
4. Expresses and supports with arguments his feelings, opinions and attitudes

MATHEMATICS

1. Names geometric shapes and bodies, classifies them according to their features, identifies them in the immediate environment
2. Determines measurable characteristics of a simple object or phenomenon in everyday situations and apply conventional units of measurement in problem solving
3. Solves arithmetic operations of addition, subtraction, multiplication and division without the use of calculators
4. Counts, read and write numbers up to 10000
5. Compares and sorts natural numbers up to one million
6. Describes and draws 2-D and 3-D figures, creates structures using models/layouts
7. Solves problems that require multiple operations
8. Reads and interprets data presented in simple tables, icons, and charts

SCIENCE

1.Explores the characteristics of different bodies, phenomena and processes, circuits in nature, a scientific approach, including the solar system and investigates the environment, using specific tools and techniques
2. Solves problems in everyday life using previous knowledge, name parts of the body, explain their function and express concern for their own health
3. Develops a responsible attitude towards oneself, towards others and towards nature, while understanding the living conditions and diversity of living beings in different habitats
4. Recognizes and describes different materials and their states, magnetic forces; recognize the motives of motion and types of energy and their measurements
5. Finds and interprets the national geographic map and conclude the relationship between landscape features.

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1

Animal world

The habitat of animals

Habitat is the natural eviroment in witch an animal lives. A habitat offers animals 3 essential things:

- **Water**
- **Food**
- **Shelter**

This place offers her all the conditions of existence, making up her living enviroment.

There are many different types of habitats:

- **hot or cold;**
- **big or small;**
- **on land or in water.**

What is a habitat? Scan the QR code to verify your knowledge.

Write down the habitat of each animal you have identified by scanning the QR code. Do you know everyone's name? You can draw your favorite animal from from the list presented.

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1

Animal world

The little explorer

What animals live on the farms?
Tick the appropriate picture.





Scan the QR code to find more informations about each species.

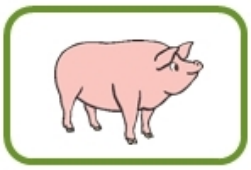
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1

Animal world

The little explorer

Which animals live on farms?
Tick the appropriate picture.












Scan the QR code to find more informations about each species.

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1

Animal world

The little explorer

Name: _____ Date: _____

Down on the Farm

Across

1. Baby cow.
3. Might be used to make cheese.
7. Used for irrigation.
8. Could be used for carrying water.
9. More than one goose.
10. Used to frighten birds away from crops.
12. Structure that makes energy from wind.
14. What you find in the chicken coop.
16. Slow moving vehicle used to tow things.
17. A female sheep.
18. A male chicken.
20. Colorful plant grown for food.
22. Shelter for many farm animals.
23. Tool for weeding.
24. Group of animals on a dairy farm.
25. She lays eggs.

Down

1. Grain that grows on a cob.
2. Baby sheep.
3. Offspring of a donkey and a horse.
4. Animal you can ride.
5. Barley, wheat, corn, etc.
6. 43560 square feet.
9. Male goose.
10. They watch over a flock of sheep.
11. Where animals graze.
13. Where honey is made.
15. Where fruit trees grow.
16. Poultry raised for Thanksgiving Day.
19. A large cattle farm.
21. It might be a billy or a nanny.
22. Large, tied bundle of straw.



Word Bank

ACRE, BALE, BARN, BEEHIVE, BUCKET, CALF, CATTLE, CHICKEN, CORN, CROPS, EGGS, EWE, GANDER, GEESE, GOAT, HOE, HORSE, LAMB, MILK, MULE, ORCHARD, PASTURE, RANCH, ROOSTER, SCARECROW, SHEPHERD, TRACTOR, TURKEY, VEGETABLE, WATER, WINDMILL

Scan the QR code to find the solution

Made with VISME

1

Animal world

What its habitat gives the polar bear ?

Food, such as seals, reindeer and fish. They use their sense of smell to find seals hiding under the snow.

Camouflage The colorless hairs reflect the white of the snow, making them hard to spot on the snow.

Ice, a place to hide, live and breed.

Conclusion
The most suitable habitat for lions is the area of the arctic circle.



What does its habitat give the lion?

Water to stay hydrated in high temperature conditions
Prey, such as antelopes and zebras, to feed themselves.
Camouflage, such as long grass to hide whie hunting its prey*.

Conclusion
The most suitable habitat for lions is the plains of Africa, because there are many zebras to provide them with food ant the grass is long in order to hide.

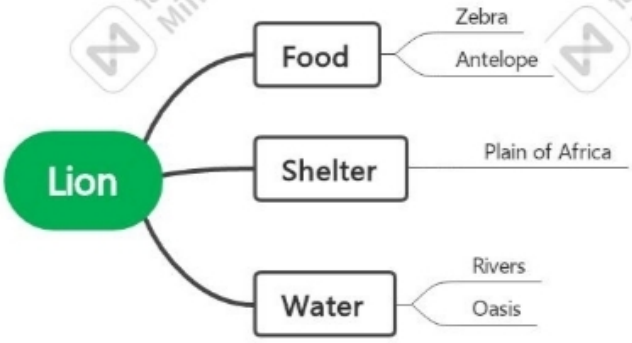
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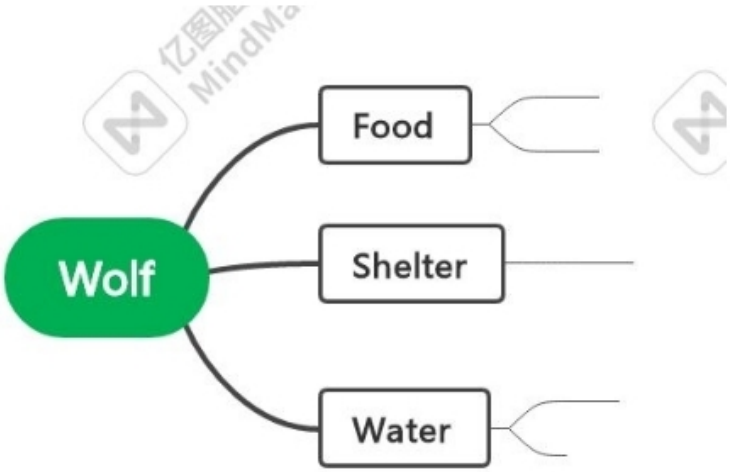
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1

Animal world



According to the model above, complete the following exercise:



What gives birds their habitat?
Feeds like berry, worms and small insects.
Camouflage so they are less visible to predators.
Materials for building the nest, such as twings and leaves.

Conclusion

The most suitable habitat for birds is the forest or the park.

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1

Animal world

Follow the wright letters to find out names of birds live in our world.

Bird Word Search

Find and circle all of the words in the list below.

S	G	D	I	D	F	M	T	G	S
P	E	N	G	U	I	N	H	R	E
A	B	Z	N	C	T	J	F	N	A
R	A	E	T	K	N	E	A	X	G
R	O	B	I	N	A	A	L	H	U
O	S	Q	Z	V	B	G	C	A	L
W	A	G	K	L	H	L	O	W	L
T	C	H	I	C	K	E	N	K	H

EAGLE
SPARROW
FALCON
HAWK
SEAGULL



ROBIN
DUCK
PENGUIN
OWL
CHICKEN

Scan each code to find out the extinct animals!
Make a list of the current status of each animal:

Extinct	Alive

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1

Animal world

Scan the code and solve the puzzle. Which animal have you discovered ? Represent it with a drawing.

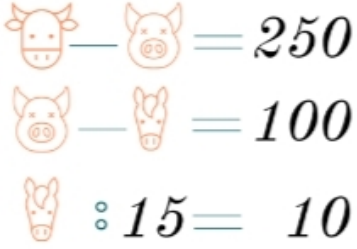
Name its habitat.

What other animals live in the same habitat?

I am smart!

Now I have 215 hazelnuts in my stash, since I gave 89 to my friend, Rita, and the woodpecker stole 76 from me. How many peanuts did I have at the beginning?

What numbers are hiding the animals?



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1

Animal world

Adaptation of animals to the living enviroment

What is adaptation?

Adaptation means changing a characteristic or trait in order to survive in a certain enviroment.

Why does animals have to adapt?

Animals adapt when their natural living enviroments change.

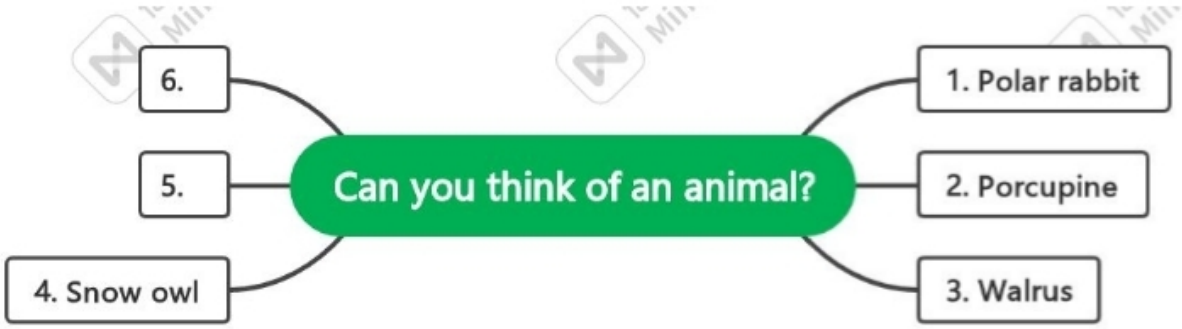
In Canada, winters can bring extreme climate changes. In order to survive the cold, animals must adapt.

How do animals adapt?

Each animal has certain traits that help in adapt to its enviroments. For exemple, the polar bear does not hibernate in the winter like the grizzlybear does. Instead, it has certain features that help it resist the cold:

- Thick fur;
- Thick layer of fat under the fur;
- Hair on the soles so as not to slip on the ice.

Can you name ather animals that have specific features of adaptation?



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1

Animal world

Case study:
Why polar bears are found only in the arctic area?

Polar bears are related to the brown bears of North America. Thousands of years ago, a population of brown bears would have migrated north along the continent, towards the Arctic. Over time, they would have evolved to become polar bears to survive the polar enviroment.





Note the differences!

Scan the QR code to find out more details!

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Animal world

How animals have adapted to the polar enviroment?

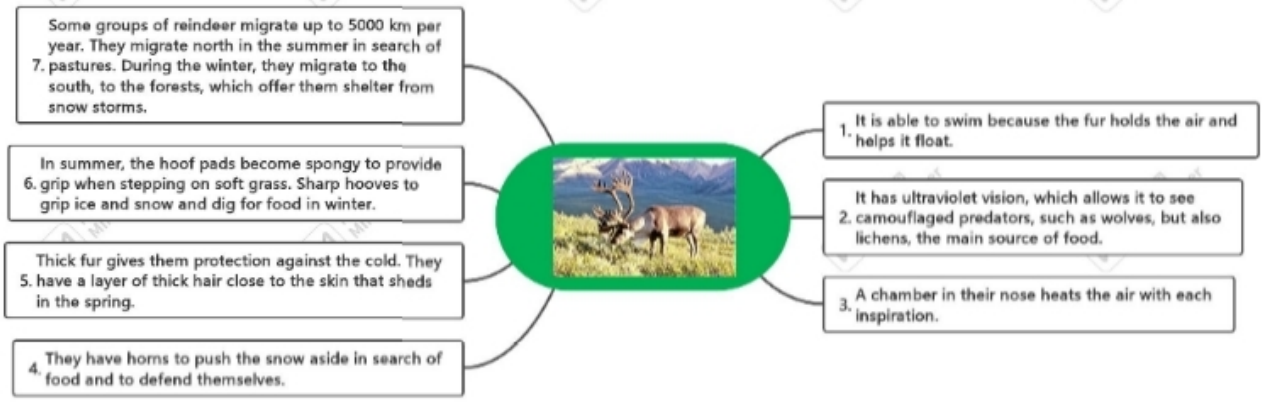
Animals living in the arctic zone have adapted to the living enviroment in oreder to survive the harsh conditions.

Specify how these animals have adapted to their living enviroment:









1

Animal world

Sort the letters to discover polar animals



Animale polare

1. IMUNRSA _____
2. RAATSBOL _____
3. TIPNEOCRAH _____
4. RNE _____
5. CAFO _____
6. BEAGUL _____
7. MOSBCTUAO _____
8. IBSIR _____
9. AALAPRDEGEPAM _____
10. UINNPGI _____
11. VLRAAN _____
12. UABCRI _____
13. EULRAIPPEOR _____
14. NXLY _____
15. LAINZIEB _____
16. PABNLATFARUOI _____
17. OPASULRR _____
18. PVEPAOULRAL _____
19. ROASM _____
20. CORA _____

Note the informations found on the musk ox

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1

Animal world

Polar Animals

Polar bears are mammals that, at maturity, can weigh up to 700 kg. They are the largest carnivores (meat eaters) that live on land. Polar bears are born between November and January, spending up to five months in their den before coming out. After that, the cubs stay with their mother for up to two years, before going off to live and hunt on their own.

Although polar bears give birth to their cubs on land, in fact, they spend most of their lives in water and on ice, hunting for food. They are strong swimmers and can swim for hours to get from one area of ice to another. As winter becomes extremely cold, the sea freezes and they manage to hunt many kilometers out to sea, walking on glaciers. Polar bears especially feed on seals, because their fat provides them with a lot of energy that helps protect them from the cold.

Wow!



Polar bears use their extraordinary sense of smell to discover seals hidden under the snow. They can smell a wounded animal from a distance of up to a kilometer. In cases where they are desperate to find food, polar bears will sometimes evenhunt whales or walruses.

Polar bears live in the arctic zone, right at the top of our planet, where the temperature can drop to -50 degrees Celsius. Water and steam freeze almost instantly during arctic winter. Fortunately, polar bears are adapted to this environment from several points of view. First of all, they have a thick layer of fat that retains heat in the body.

Moreover, their fur not only keeps them warm, but also helps them camouflage in the snow. Despite appearances, the fur of a polar bear is not really white. This is transparent, but reflects light, making it appear white.



Penguins

Penguins are birds that spend a large part of their lives in water. Unlike most birds, penguins cannot fly. They have wings but they are more like fins, helping them to swim. Since they live in water, their body has adapted so that they can swim excellently to hunt for food. Their body is smooth, gliding easily through the water, like an arrow. They have dark colored feathers with lighter spots, which helps them camouflage, being difficult to notice. This is a very useful trick to avoid predators.

Penguins do not have to swim in deep water, because the fish they catch is found close to the surface. Their feathers create a waterproof coat for the body. Penguins are found on every continent in the southern hemisphere (lower half of the world). Most people think that penguins live only in areas with ice and snow, but there are some species that live in areas with a warmer climate. The warmest habitat for penguins is in the Galapagos Islands, where temperatures can reach up to 32 degrees Celsius. Emperor penguins and Adelie penguins live in Antarctica at temperatures of -60 degrees Celsius. Emperor penguins are the only animals that remain on the ice during the Antarctic winter, huddling together to survive in the harshest weather conditions on earth.



Reply to the following questions:

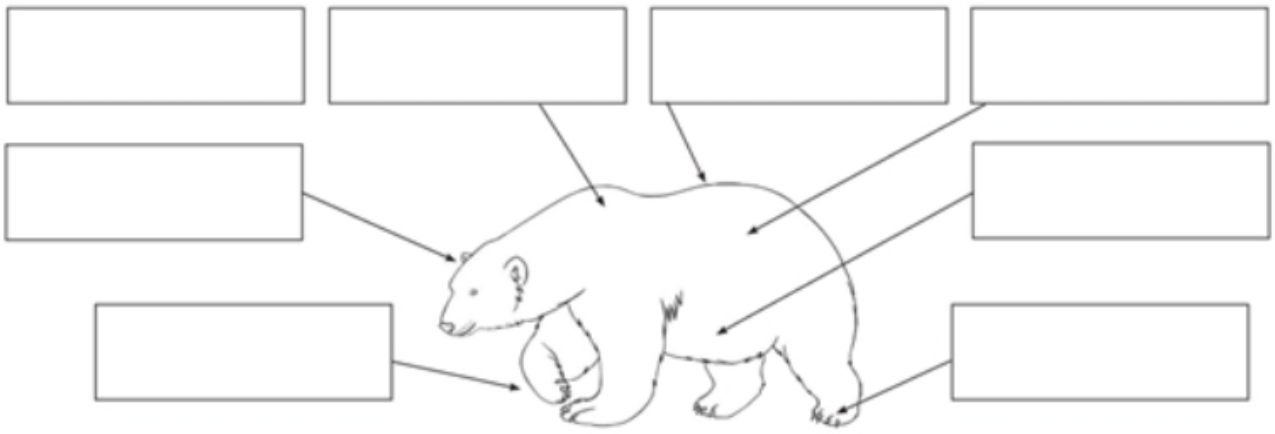
1. What is a carnivorous animal?
2. What temperatures can be reached during arctic winters?
3. From what distance can the polar bear feel the wounded animal?
4. How do polar bears manage to hunt many miles out to sea?
5. How did penguins adapt to life at sea? Give two examples.
6. What is the Southern Hemisphere?
7. When do polar bears choose to stay on land?
8. Why don't penguins need it to swim in the deep?

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1

Animal world

Match the information to complete the diagram and find out how the polar bear adapted to its living enviroment.



Scan the QR codes to find out how the following animals adapted to the living enviroment.

ANIMAL	ADAPTATION TO THE LIVING ENVIROMENT	HOW IT HELPS HIM TO SURVIVE?
Polar Bear	Thock layer of fat	Maintains body heat
Penguin		
Polar Fox		
Seal		

4 orcas emerged from the Arctic Ocean. The first was 2m long. The second was twice as long as the first, the third was 3m long and the fourth half the lenght of the first. What are the dimensions of each orca? Write down the answer in the tab

Solve the puzzle

Orca	Size
orca 1	
orca 2	
orca 3	
orca 4	

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1

Animal world

Endangered animals

What is a protected species?

Some species of plants and animals are protected by the law for several reasons:

- the number of specimens in the wild has fallen below a level that puts their species in danger of extinction ;
- the habitats in wich they are found are very restricted.

The International Union for Conservation of Nature (IUCN) created the Red List which includesall species of animals and plants in danger of extinction. Animal species are divided into several categories:

V	Vulnerable
EN	Threatened
CR	Endangered

How did some species endangered?

Population growth led to the restriction or even the loss of the natural habitats of many animal species and plants.

Climate change in recent years and pollution have greatly affected animal and plant life around the world

Excessive hunting and fishing of some species, as well as the collection of rare plants, resulted in the reduction of the number of specimensand the endangerment of species.

Natural causes such as diseasesor migration of an invasive species of animal, insector plant that puts in danger to the normal developmentof protected species

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Animal World

The Bison

- Is the largest land mammal in Europe.
- It disappeared from the territory of our country, but was reintroduced in Romania, 70 years ago.
- It lives in natural reserves and in some zoos in the country.

Scan the QR code for more details!

V Vulnerable

The Dobrogean dragon

- Is one of the largest non-venomous snakes in Romania, being able to reach up to 2 meters and 60 centimeters.
- It is spread across the countries of eastern Romania.
- It is a protected species in our country. it can also be found in other countries, where it is not considered an endangered species.

EN Threatened

The Lynx

- The third largest predator in Europe.
- Europe's largest native feline.
- In Romania is spread in the forests of the Eastern Carpathians and in the Apuseni Mountains.
- It lives and hunts alone in very extensive areas, far from human sttlements.

CR Endangered

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1

Animal World

The Sturgeon



The largest population of wild sturgeons in the world can be found in the Danube basin.

Can live more than 100 years

It is a species of fish that has existed since the time of the dinosaurs.

It lives in the Black Sea and swims upstream on the Danube for reproduction.

It can reach up to 4 meters in length.

- Make a drawing with the endangered species from Romania .

- Find at least 3 solutions to diminish the extinction of the species.

Solve the rebus

Discover another endangered animal

- List the action taken by humans that lead to the extinction of species.

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1

Animal World

Visit to the Zoo

Take the notebook on your visit to the Zoo. Make a list of the animals seen, write down next to each one some details found on the information panel.

Example:

1. Brown bear



Life span	Food	Habitat

2. Red panda



Life span	Food	Habitat

3. Wolf



Life span	Food	Habitat

4. Boa snake



Life span	Food	Habitat

5. Lama

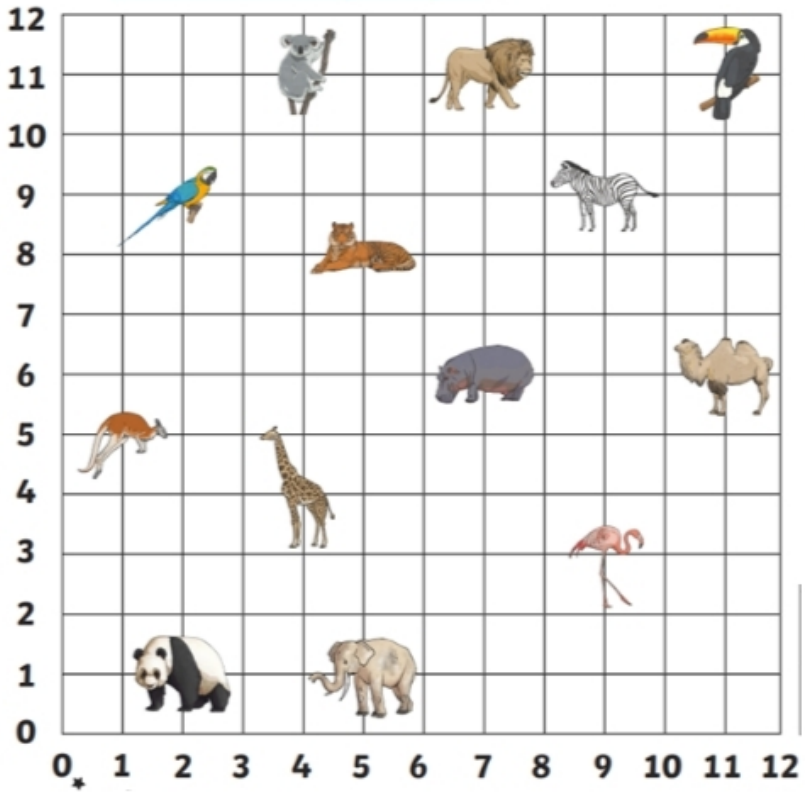


Life span	Food	Habitat

1

Lumea animalelor

Find the coordinates for each animal



(7,11) = _____ (7,6) = _____

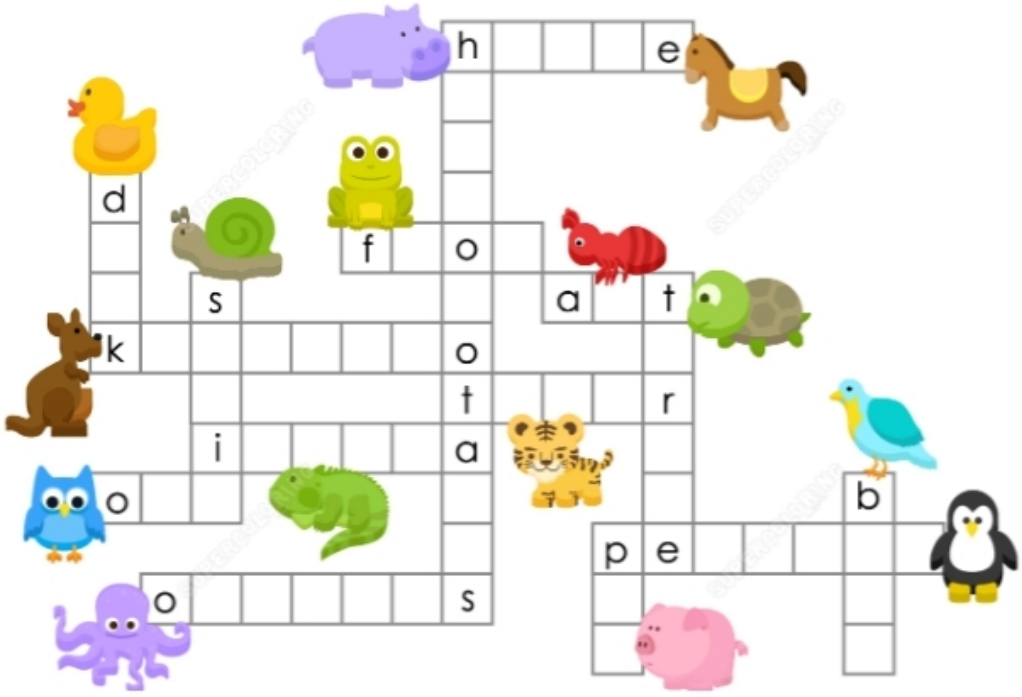
(2,1) = _____ (11,6) = _____

(11,11) = _____ (1,5) = _____

(9,3) = _____ (9,9) = _____

(4,11) = _____ (5,8) = _____





PUZZLE

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1

Animal World

Experiment



The glass fish
Science experiment
You will need:

- a 1l plastic bottle;
- water;
- plastic pipette;
- the image with a seal, laminated;
- waterproof glass;
- a 5/10 bani coin;
- patafix adheziv tablets;
- tape.

Stages of the experiment:

1. Cut the pipette on the 2 ml line. Discard the thin tip.
2. Glue the 5/10 bani coin to the cut pipette, above the 2 ml line. List, cut and laminate the fish image. Glue the fish on top of the coin.
3. Fill the bottle with water.
4. Place the pipette in the bottle with the coin and the fish attached to it, being careful to insert it with the open end facing down. Close the lid.
5. Test the experiment by squeezing the bottle. The fish should sink when you squeeze the bottle, and rise when you let go.
6. If the fish doesn't sink when you squeeze the bottle, then it will need more weight. Open the bottle, remove the pipette with the fish and stick a bit of patafix adhesiv tablet on the pipette, close to the coin.

Solve the puzzle to discover the color transfer experiment.

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1

Animal World

Experiments

I learned new things. Write down what you notice:

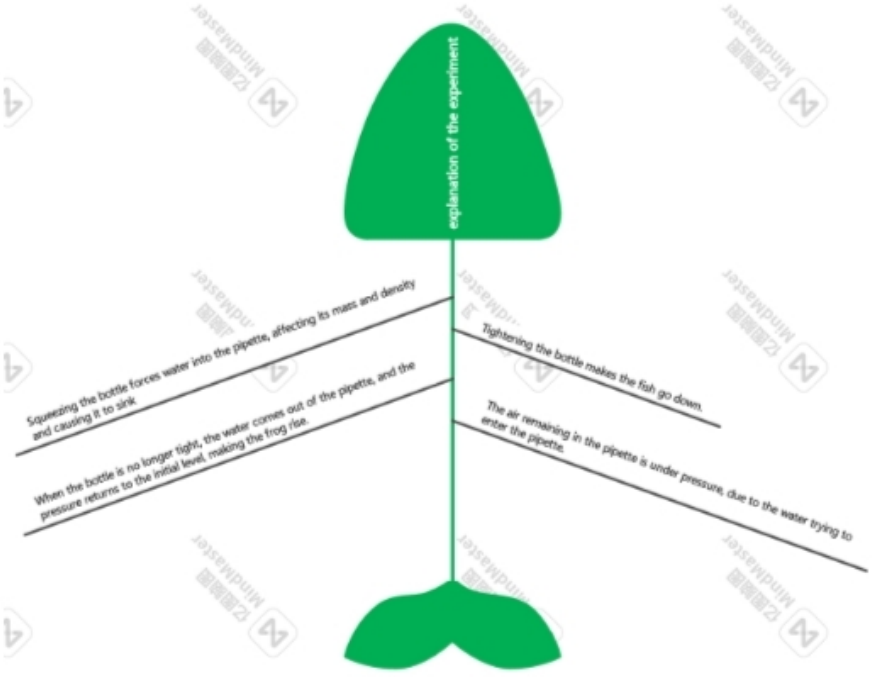
Squeeze the bottle a little. What happens?

Let go of the bottle. What happens now?

Can you make the fish climb? How?

Can you make the fish go down? How?

Can you make the fish sit in the middle of the bottle?



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1

Animal World

Experiments

Clean water

We need:
- A jar of dirty water;
- Several tools, some of which are useful and some of which are false leads;
- Several identical, empty and clean jars - one for each team - with a lid that closes tightly;
- A timer;
- sieve with small holes;
- sieve with large holes;
- paper towels;
- A piece of cloth large enough to cover the sieve;
- A funnel;
other containers;
- One spoon.

The winning team will be the one with the cleanest water in the jar when time runs out.
You must use at least two different processes to clean the water. Teamwork and communication can also be rewarded. When the working time expires, it will not be extended and only the water will be taken into account, which, at the end of the challenge, will be in a jar with a lid. If you spill or lose some of the water, bad luck! Be careful!
You will have exactly 20 minutes to complete the challenge.
Along the way, you will be notified of the remaining time.

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1

Lumea animalelor

Experimente

Clean water - challenge

Team Data Record Sheet

Team name .....

Team members:

_____
_____
_____
_____
_____
_____
_____

Tool used	Was it useful?

Process used (in order of use)	What happened?

On a scale of 1 to 10, what was the team's success rate? .....

Why did you choose this score?

_____

What would you do different?

_____

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1

Experiments

Animal Wold

How can you melt a glacier? Look for the words, then write down only the right ones.

GLACIER WORDSEARCH

Y S R D C B S F T R R V F K T J A
I L R F R E E Z E T H A W F Q A C
T Q D E X L M T S C X Z I W I N C
K O D N I C E U M P I C R S S V U
O C G N D E H G B N R I F G I F M
X C K N O K Q P N T M K X D E N U
O G I T I I U E U I S P W E P M L
Y M Q N W R S Q R N K S U B H G A
L I S Q O X E A N O D C Z J N L T
L O S S Z I W H R Z S R U I C A I
J I T H A B T T T B E I B L T C O
W E M G O U F A X A A L O F P I N
H V Y A A J F X L W E M L N I E N
P O J I K I G P Y B H W M M R R J
U M W N T T V R G H A B S R Y P V
U F V I C K U F T E Y K L D C U C
Y S E L S L A L U P P U C F R U O

ICE
LOSS
FREEZE THAW
WEATHERING
GAIN
GLACIER
PLUCKING
ABLATION
FIRN
ABRASION
EROSION
ACCUMULATI

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2

Human body

Human body structure



Read the following information carefully:

The human body represents the totality of the organs of a living being. It consists of: head, trunk and limbs. All the bones in the human body form the skeleton. The skeleton is made up of many bones. They give the body its perfect shape and protect the organs inside it. An adult skeleton has 206 bones. It includes: the skeleton of the head (cranium), the skeleton of the trunk (thorax), the vertebral column, the skeleton of the pelvis, the skeleton of the upper limbs and the skeletonlower limbs.

Muscles help our body move. In our body we have muscles of all shapes and sizes. The strongest muscle in your body is the jaw muscle that helps you chew.

Many of the important parts of our body we cannot see because they are inside our body. Each of these have an important role, working together to keep us healthy.

The brain is protected by the skull and is surrounded by a fluid to cushion the shock in the event of a fall. The brain is about the size of a small cauliflower. It sends messages throughout the body via the spinal cord. It is like a kind of control center of your body. To function properly, the brain needs the oxygen in your blood. About 2000 liters of blood pass through your brain every day! Your brain controls all activities, including breathing, which you don't think about when you do it.

The heart is like a pump, but it is a muscle. It is slightly to the left of the center of the chest and is about the size of a large fist. The heart sends blood throughout the body. Blood provides the body with the oxygen and nutrients it needs.

The lungs are protected by the rib cage. The lungs take up most of the space in the chest. The lungs allow you to breathe in clean air and breathe out useless air (carbon dioxide).

The liver is the largest organ inside the body. The liver removes toxins and helps the body store energy. When the body is fully developed the liver will have 1500 grams, but by the age of 60 it will reach only 800 grams!
When we eat, the body sends the food to the stomach, where it stays between 2 and a half to 3 hours. The stomach muscles crush the food until it turns into a paste. The stomach produces juices that break down food and kill any microbes you might have accidentally swallowed.

The kidneys are in pairs. Each kidney is 13 cm long and about 8 cm wide. About the size of a computer mouse. The kidney is as important as the heart. The body needs at least one kidney to survive. If you've ever seen a bean, then you have a pretty good idea of what a kidney looks like! One of the main jobs of the kidneys is to filter waste from the blood.

Leather is strong and durable, only good for covering and protecting your body. The skin helps us maintain the ideal temperature in our body. The skin is our largest organ! Thanks to the skin we have the sense of touch. The skin is very important. It covers and protects everything inside the body. The skin is continuously renewed. Although you can't see it, every minute of the day we shed between 30,000 and 40,000 dead skin cells from the surface of our skin.

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Human body

2

Human body structure



Answer the following questions:

a. What makes up all the bones?

_____

_____

b. Which is the most powerful muscle of the body?

_____

_____

c. List the main internal organs of the human body!

_____

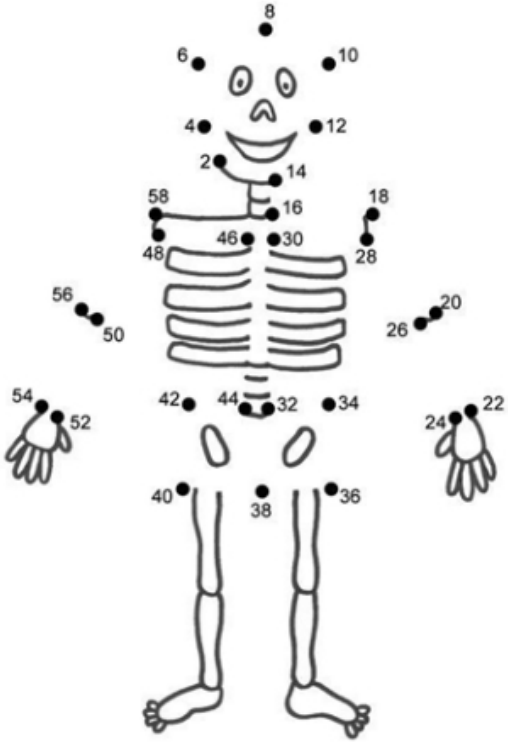
_____

d. What is the largest organ of our body thanks to which we have the sense of touch?

_____

_____

Join the dots in ascending order, 2 by 2, to form the picture, then in teams of two students orally name the parts of the human skeleton.



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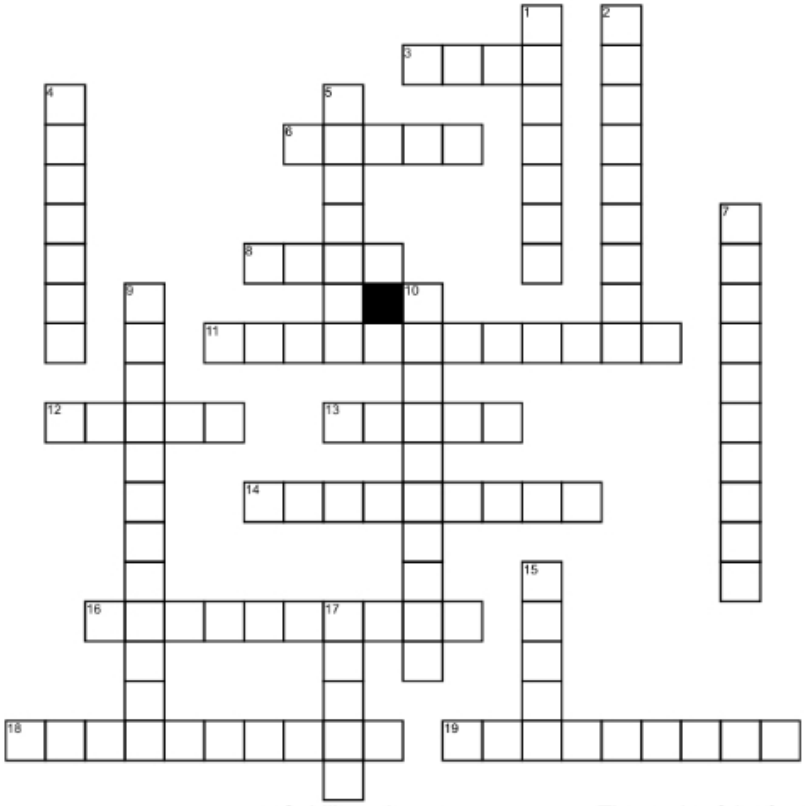
2

Human body

The little explorer

Complete the puzzle with the appropriate information:

The Human Body



Across

3. The body's largest organ
6. Supplies the blood with oxygen
8. Controls vision
11. The study of structures that can be seen with the naked eye
12. Basic units of living matter
13. Controls all body functions
14. The study of structures that can only be seen under a microscope
16. Gel-like substance containing water, salt and nutrients obtained from food
18. Digests food
19. Production deprtment of the cell

Down

1. The study of the organs and syatems of the body
2. The process of building up larger molecules from smaller ones
4. Eliminates water and waste products
5. Cells control center
7. The study of the functions these organs and systems perform
9. The outer surface of the cell
10. The process of breaking down larger molecules into smaller ones
15. Circulates blood through the body
17. Removes toxic byproducts of digestion

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2

Human body

Little explorer

Aboout the human skeleton... QR Code with information



Write in the spaces below what you remember after reading the information.

.....
.....
.....
.....

The main internal organs of the human are:

- **the brain – coordinates the activity of the entire organism; ;**
- **heart – pumps blood throughout the body;**
- **lungs – helps with breathing;**
- **stomach – transforms food into nutritious substances;**
- **kidneys - eliminate useless (toxic) substances.**

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2

Human body

Little explorer

Write the names of the internal organs in the boxes, then match them with the role on the labels.



Brain

pompeaza sangele



Text

Da comenzi organismului



Text

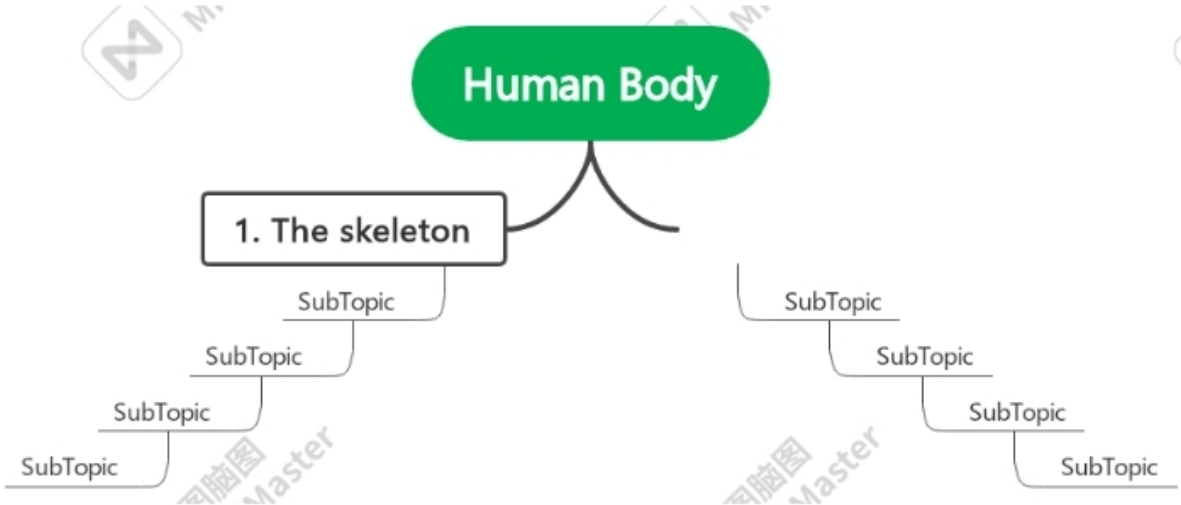
Marunteste alimentele



Text

Elimina substantele nefolositoare

Complete the concept map with internal organs and parts of the human body skeleton:



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Human body

Little explorer

Curiosities:



Scan the following Qr Code to learn information about the human body.
Put in descending order the numbers you encounter in the text you read, in the adjacent box.

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2

Human body

Case study



Why the left lung is it smaller than the right lung???

When making a drawing of the lungs, most people draw them both roughly the same size. In reality, the left lung is smaller. This is due to the human heart, although it is located somewhat in the center of the chest, it is slightly inclined to the left, "stealing" from the space occupied by the lung on the left side.

Didactic game - The human body

Scan the code, then match the letter with the correct picture or word. At the end you will have a surprise!

Scan the code and solve the puzzle!

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Human body

2

Complete the following riddles with what fits in the brackets (head, neck, feet, cheeks, sole, hands, chest, spine, abdomen, pelvis, nose, ears, mouth):

1) Always
pray beautifully
May he be healthy.
If you have a "seat at....."
Many things fit in it.

_____

2) For the body it has a purpose,
That it provides shelter
For the heart, lung
And on the coast he is master.

_____

3) Less,without measure,
We take out the words from....
We would have another face
If she didn't exist too.
And then, no food
What would the man do?

_____

4) If it is not big enough
You don't stand well on your feet
Don't cut your nails
You have a bigger shoe.

_____

5) It helps us to be heard
We have the right to stay, however we want.
Sometimes they blush,
If some pinch them.

_____

6) I will tell you this about him:
That it is short and we call it.....
Sometimes we have problems
If we drink cold water.
If we also give them ice cream,
He blushes immediately.

_____

7) She hastwo peonies on her face
Tomatoes in.....,
How much it colors
If she is ashamed.

_____

8) You do a lot, but with patience,
Even if you have no skill,
You can do anything you put your mind to,
Just don't hurt them.

_____

9) He's always busy
Stomach, gall, liver,
Pancreas and intestines,
Caught in the thin skins.

_____

10) Ideal room,
For the genital part,
Big bones guard it
And the kidneys protect.

_____

11) Man has a pair.
Our body supports it.
He's on the move all day,
At night they rest a little.

_____

12) We always use it
When we smell something.
It's a breathing organ
And from two nostrils.

_____

13) Like
strings strung together,
Discs are lined up.
Our back strengthens it
And..... it is called.

_____

Made with VISME

2

Human body

I am smart!

The bone skeleton of an adult person represents about 1/7 of the total body weight. How much does your skeleton weigh?

The heart pumps about 6 liters of blood per minute. How many liters does it pump in anhour? But one day? If a man lives 75 years, how many liters of blood does the heart pump?



The strongest and longest bone in the body, the femur, represents about a quarter of the height of each individual.

Measure its length and calculate how tall you are!



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2

Human body

Compose a text of 10-12 statements in which you present the importance of the internal organs of the human body.

When writing the text you will consider:
− the existence of the component parts: introduction, content, conclusion;
– the logic of chaining ideas;
- − clear statement, consistent with the opinion formulated;
- the use of literary language (vocabulary according to the theme, clarity of pronunciation, spelling, punctuation, placement in page, readability).



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2

Human body



Nonverbal communication

What is non-verbal communication?

Nonverbal communication refers to gestures, facial expressions, tone of voice, eye contact (or lack thereof), body language, posture, and other ways people can communicate without using words. Forms of expression of non-verbal language:

a. *Mimicry*: facial features reflect a person's feelings (smile, frown, look), gesture, silence, touch; Examples: Frowning - can suggest the person is focused or can convey disapproval or nervousness. The look "under the eyebrows" - embarrassment, maybe even fear to express; When a person does not look you in the eye: alarm signal, possible lie, shame;

b. *Position and movement*

The position of the hands can give us countless clues about someone's condition. The meaning of hands in the context of body language:



· open, relaxed hands reveal a positive attitude, an invitation to sincerity;
· arms held behind the back mean restlessness;
· resting the chin on the palm betrays boredom;
· clenched palms show tension;
· playing with the pen is a sign of impatience;

Of great importance are the posture and orientation of the body. So, the position of leg over leg and arms crossed, legs over the arm of the chair, legs on the desk or rocking, tapping all show lack of interest. However, when the legs are crossed and the body position is directed towards the interlocutor, it is a sign of understanding and cooperation. Leaning the body forward slightly shows interest. Leaning back shows lack of interest. Turning the body to one side while the interlocutor is speaking indicates the desire to end the discussion.

Tips:

- Adopt an open position of the body: the hands should move freely next to the body, the legs are relaxed, the body is in a straight position. He gestures, but not abusively.
-Be careful: avoid being too tense, but too much lightness can also be harmful!
- Learn to use: hugs, an encouraging tap on the shoulder, the handshake as a greeting between boys, etc.

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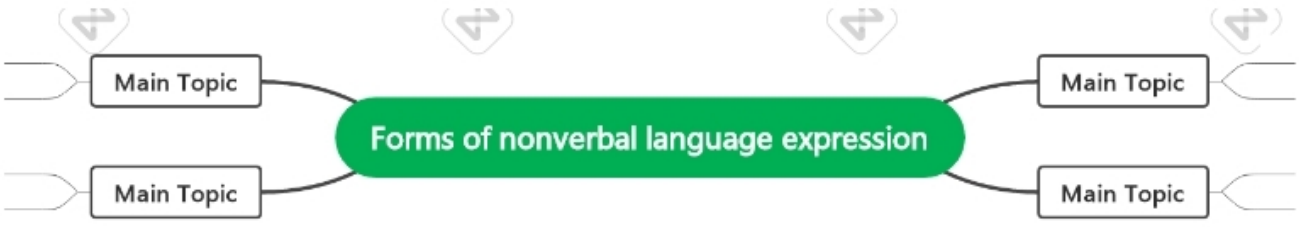
2

Human body

Nonverbal communication

c.Clothing:
-Dress according to the situation, the occasion, the place.
-Your physical appearance, the way you wear your hair, makeup = are a way of communicating who you are, a way of sending important messages to others about what you think and feel about yourself. Communicate to others your taste, style and groups you identify with. People judge you based on your appearance and assume things about you based on the way you look.
d. The drawing
Ex: Family drawing, Tree drawing/Test, House test
*You can search on the internet: Family drawing, Tree test, Little man test,
The house test

1. Complete the concept map below with two pieces of informat according to what you have read previously:



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2

Human body

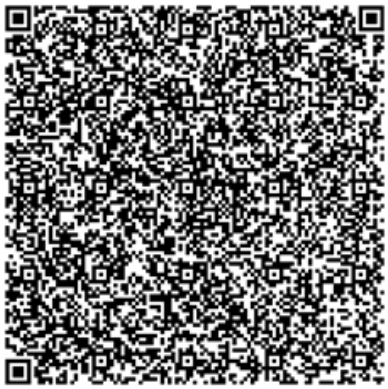
Nonverbal communication



The languageof colors

Colors also influence communication. They highlight man's attitude towards life and towards those around him. The color of clothing used by a person tells us a number of things about him.

Scan the code to find out what some colors represent.





Write down in the spaces below three colors you read about and w they represent every.

.....

.....

.....

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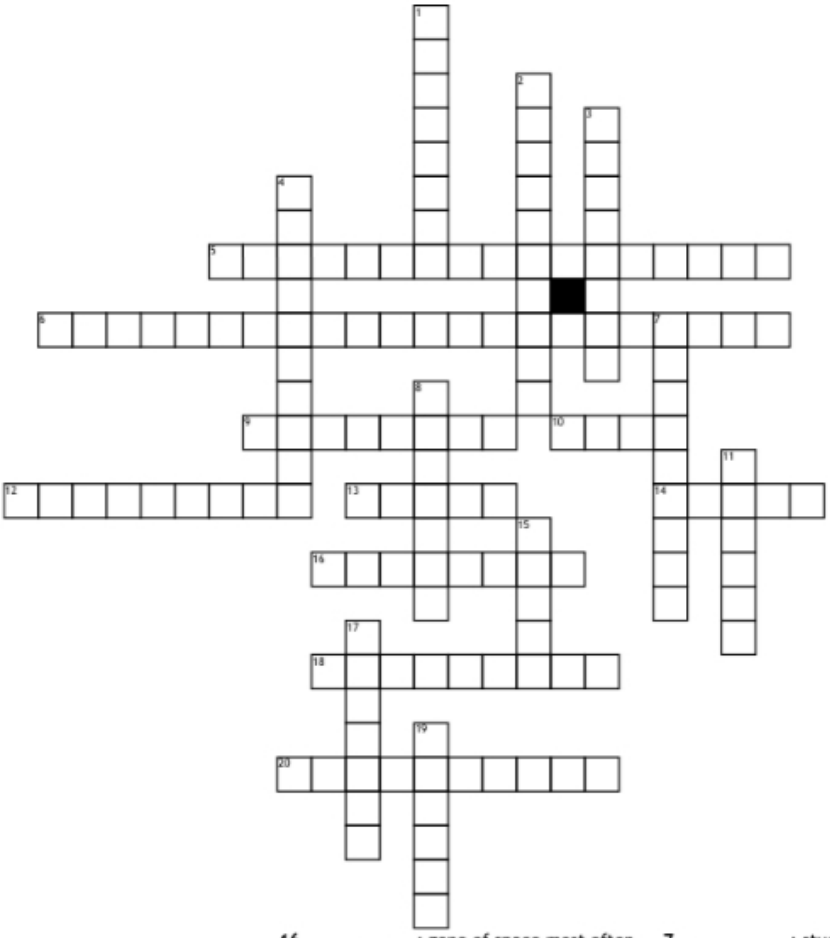
2

Human body

Little explorer

Complete the puzzle with the appropriate information:

Nonverbal Communication





Across

5. _____: the movment or positions of the mucles of your face

6. _____: behavior other than written or spoken language that creates meaning for someone

9. _____: wise-open eyes; raised and wrinkled brow; staring eyes

10. _____ : open mouth; tense skin under the eyes; wrinkles in the center of the forehead

12. _____: study of how close or far away from people and objects people position themselves

13. _____: tensed lower eyelid; either pursed lips or open mouth; lowered and wrinked brow; staring eyes

14. _____: come so close to (an object) as to be or come into contact with it

16. _____: zone of space most often used for very personal or intimate interactions, ranging from 1 1/2 to 4 feet between individuals

18. _____: smiling;mouth maybe open or closed; raised cheeks; wrinkles around lower eyelids

20. _____: the way we make visual connection with another through the use of our eyes

Down

1. _____: zone of space most often used for very personal or intimate interactions, ranging from 0 to 1 1/2 feet between individual

2. _____: the way that someone or something looks

3. _____: study of human movement are gesture

4. _____: is a sound or inflection of the voice used to send a particular message.

7. _____: study of how animals and humans use space and objects to communicate occupancy or ownership of space

8. _____: raised or curled upperlip; wrinkled nose; raised cheecks; lowed brow; lower upper eyelid

11. _____: zone of space most often used by public speakers or anyone speaking to many people raning beyond 12 feet from the individual

15. _____: the distance between two people

17. _____: lip may tremble; corners of lips turn downward: corners of the upperlid may be raised

19. _____: zone of space most often used for group interactions, ranging from 4 to 12 feet between individual

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2

Human body

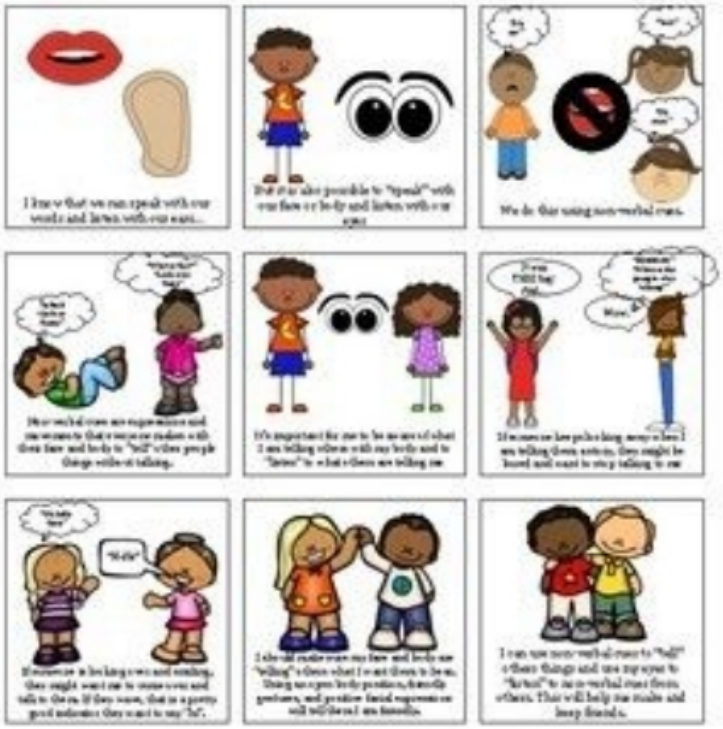
Little explorer

Fun exercise:

Strack, Martin and Stepper (apud Crisp, Turner, 2007) conducted a particularly interesting experiment. They asked people to rate the humor in some comics. So far nothing spectacular: but the participants had to do this by holding the end of a pencil in their mouth. Half the subjects were instructed to do this with their teeth, the others were told to hold the end of the pencil with their lips.

Let's watch the comics too!

(Students will be divided into two groups - some to hold the end of the pencil with their teeth, the second group will hold the end of the pencil with their lips.)



Non-verbal cues

The results of the experiment showed that the participants rated the drawings shown differently: those who held the pencil between their teeth rated them as much funnier than those who had to perform the task holding the pencil between their lips.

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2

Human body

Little explorer

What is the explanation?

The pencil held between the teeth refers to a facial expression similar to a smile, the pencil held between the lips refers to a facial expression of anger. Even though these expressions were unrelated to the psychological state of the participants, they self-manipulated that the drawings were funnier when the pencil was held between the teeth or that they were not humorous when the pencil was held between the lips.

Compose a text of 8-12 sentences in which you tell how you felt at your birthday party.



When writing the text you will consider:
– the existence of the component parts: introduction, content, conclusion;
– the logic of chaining ideas;
-formulating an opinion regarding the given topic;
– clear statement, consistent with the opinion formulated;
- the use

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2

Human body

Forms of expression a nonverbal language:

Scan the code and solve the puzzle.

SCAN ME

What should you do?
Take a piece of paper and something to write with and draw a tree. Don't think too much. You have to draw it quickly, "as you like", try not to make it too elaborate (for 5 minutes). After you finish the drawing, you can find out the test results. (Appendix 1)

Fame find the emotion!

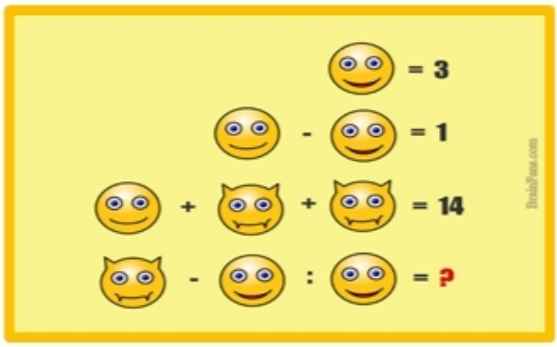
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2

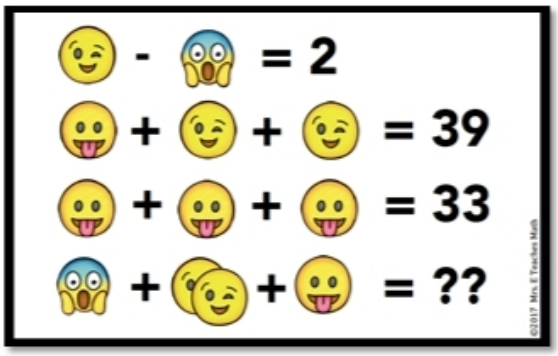
Human body

I am smart!

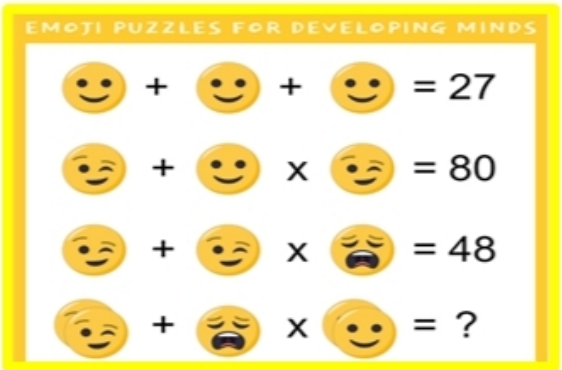
Find out the numbers hidden under emoticons!



What is the final score?



Find the value of each emoticon.



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2

Human body

Little explorer

TREE TEST
Appendix 1

You must follow these aspects of your drawing:
1. The root
2. The trunk
3. The branches
4. The leaves or fruits



Root
The wayyou draw the root speaks about how connected to reality you are.
If you haven't drawn the root of the tree at all, this may mean that you are going through a period of anxiety, of insecurity. Thick, strong roots indicate a very pragmatic, rational personality, well anchored in reality, which is not necessarily a 100% positive thing, because seriousness must be diverted from time to time and life viewed with irony.

The trunk
The trunk symbolizes, in general, your way of being. Delicate lines and shadows symbolize shyness. If the trunk of the tree is small, then you are a person who does not like to stand out too much; if it is thick then it means that you have a lot of inner strength and you like to stand out, with a lot of courage and with a smile on your face. If the trunk of your tree is broken, it means that you are a very sensitive person, fragile on the inside, who needs protection; it can also indicate that you are in a rather difficult period and that you need psychological support or the support of family and friends.

The branches
The branches you drew symbolize your connection to the world and the people around you. If you have drawn small branches or if they do not exist at all, this may indicate that it is difficult for you to express yourself in public, show yourself and communicate with those around you. Thick branches indicate an expansive personality.
Sharp branches indicate a certain tendency towards aggression. Some gnarled branches symbolize the difficulty of communicating with others. When the branches do not appear much in your drawing, it means that you are a very careful person about people, that you are very selective about those who can or cannot enter your circle.

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2

Human body

Little explorer

TREE TEST
Appendix 1

The leaves and/or flowers

Leaves and/or flowers indicate your effort to reach the heights of success. If you don't have them drawn at all, you may be a person who does not trust forces at all own.
Extremely detailed drawn leaves or flowers can betray an obsessive-compulsive tendency.
The flowers on the tree symbolize an optimistic person.
Other details
If you also drew the fruits, then it means that you are a person who has a lot of confidence in herself.
If you drew a Christmas tree, this may indicate longing for your childhood.
Holes in the trunk can indicate an inability to self-control.
If you have drawn a willow, this may indicate depression.







Made with VISME

2

Human body

Human body and sports



The human body is a well-structured system that uses energy as fuel. Movement is an essential element for our health, and practicing organized, conscious and constant sport helps to keep us healthy and fit.

We are informed!

- Physical exercises improve our thinking and help the body to function properly; A few minutes of physical exercise in the morning will make us feel full of energy all day;
- The harmonious development of the body can be done through sports and outdoor activities;
- Daily physical exercises contribute to health and the proper functioning of bones and muscles;
- The heart becomes stronger as the body is more trained;
- A person accustomed to daily physical exercise has a harmonious body, is cheerful and optimistic.

Answer the following questions:

a. What is the essential element for health?

_____

_____

b. What helps us stay healthy?

_____

_____

c. What are the benefits of exercise?

_____

_____

d. Which organ becomes stronger as the body is trained?

_____

_____

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2

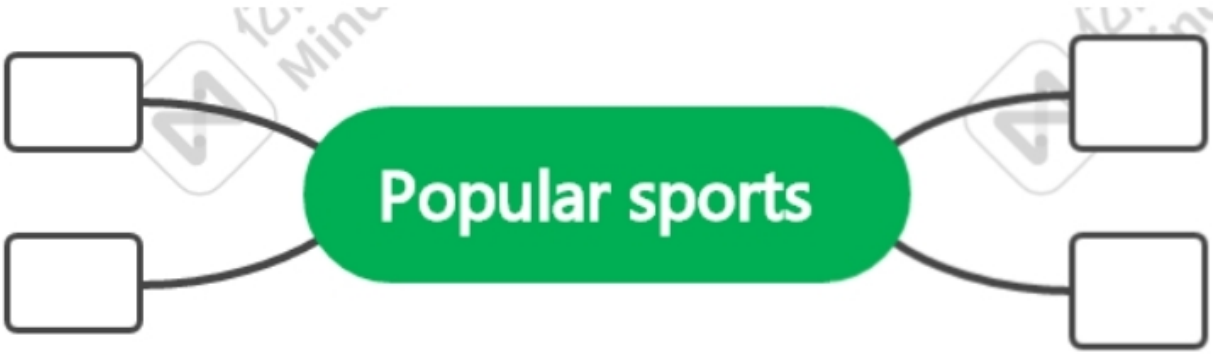
Human body

Human body and sport

When writing the text you will consider:
– the existence of the component parts: introduction, content, conclusion;
– the logic of chaining ideas;
- formulating an opinion regarding the given topic;
– clear statement, consistent with the opinion formulated;
- the use of literary language (vocabulary according to the theme, clarity of pronunciation, spelling, punctuation, placement on the page, readability).

Compose a text of 8-12 sentences in which you tell how it was at your first sports competition.

Write down some well-known sports in the concept map below.



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2

Human body

Little explorer

Name the winter games/sports in the pictures below.



Scan the code and solve the puzzle.



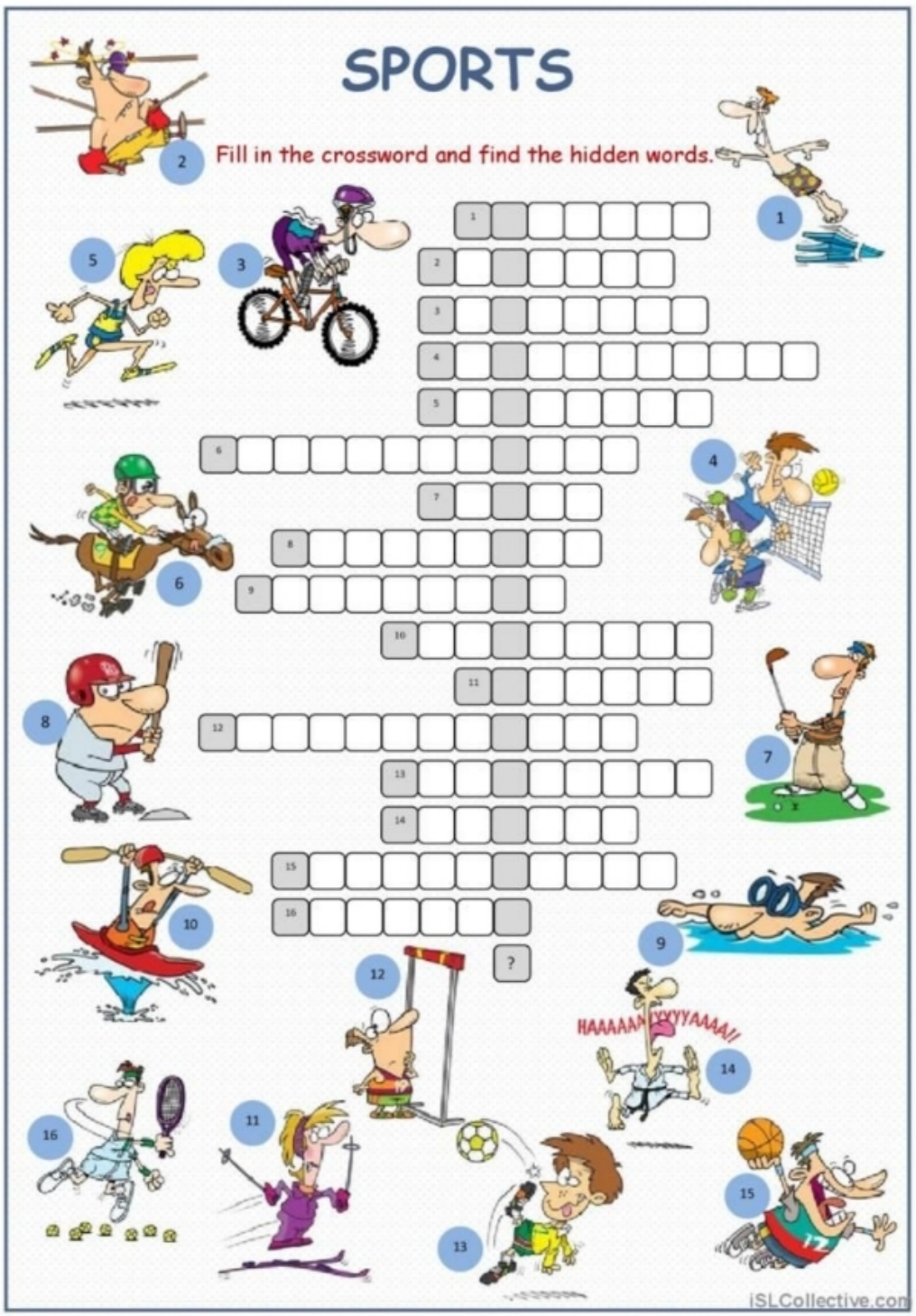
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2

Human body

Little explorer

Complete the puzzle with the appropriate information:









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2

Human body

Little explorer

Recognize the sports in the images presented in the following QR Code.



Write the names of the sports shown in the pictures.

.....

.....

Didactic game- ***Find the paired cards!***



Made with VISME

2

Human body

I am smart!

On the occasion of World Bicycle Day, 6 cyclists covered the following distances:

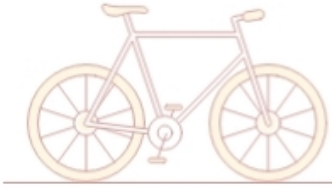


I-8428 m
II- 7795 m
III- 7481 m
IV- 7500 m
V- 8508 m
VI- 8499 m

Round numbers to the nearest thousand to find out who has covered almost 8 km (8000m).

From two cities, two cyclists started towards each other. One had 23 km per hour, and the second a speed 9 km lower. After two hours they were 14 km from each other. What is the distance between the two cities?





In a competition, Ioana got half of Adi's score, Corina with 26 more points than Ioana, and Tudor with 78 less than Corina. If Tudor has 150 points, how many points did the other participants get?



Scan the QR code to find out which are the most popular sports in the world!

Made with VISME

2

Human body

Health education

Hygiene is a set of rules and measures to preserve health. In order to have a good state of health, one must take into account:
I. Body hygiene;
II. Dental hygiene;
III. Food hygiene;
IV. Clothing hygiene;
V. Footwear hygiene
VI. Home hygiene;
ARE YOU COMING. Healthy food diet.

I. Body hygiene ensures the cleanliness of the entire body by washing with soap, shampoo, shower gels, etc. By observing this rule, the human body is protected from various diseases. Hand washing should be done before and after eating, after using the toilet, after playing or touching an animal, and when you are sick (if you have coughed, sneezed or wiped your nose).



Scan the code to solve the following puzzle:

SCAN ME

What does the child do in the morning?
.....
What item does this use for good health?
.....
What does lively mean?
.....

Made with VISME

2

Human body

Health education

II. Dentalhygiene

We are informed!

- Mouth (oral) hygiene means careful cleaning of the gums and teeth.
- In order for the teeth to be healthy, they must be brushed 2-3 times daily, for at least 3 minutes.
- Dental floss or toothpicks are used to remove food debris from between the teeth.

Little artists...

Scan the code below to follow the steps in making a tooth, then sing the featured song! (Appendix 1)

Optional: You can practice the moves suggested by the song, but you need a toothbrush!

SCAN ME



Made with VISME

2

Human body

Little explorer



III. Food hygiene

Scan the QR code to discover food hygiene information. Write some rules in the spaces below.

.....

.....

.....

IV. Clothing hygiene

We are informed!

- Clothing protects our body from cold, heat, rain, but also from accidents, scratches, bumps or cuts.
- Clothing should be cleaned of dust and dirt to remove germs and air the skin.
- Underwear is not worn for several days in a row because the sweat of the skin enters the fabric and thus microbes multiply very quickly.









Made with VISME

2

Human body

Little explorer

Formulate one piece of advice for a person who does not follow hygiene rules, starting from the given images:





a.
b.
c.

V. Footwear hygiene

We are informed!

- Footwear protects the feet from cold or too much heat, from blows, injuries or cuts.
- If the shoes are too tight, it causes swelling of the feet, pain and deformation of the toes. In winter, if the shoes are tight, the feet get cold and lead to frostbite.
- In the personal home, the most dirt accumulates on the shoes. That is why it is necessary to take off our shoes upon entering the house and then to clean the shoes.

Complete the following concept map with what you have learned about shoe hygiene.



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2

Human body

Little explorer



VI. Home hygiene

We are informed!

• A clean and orderly house is an environment in which we feel joy and good mood;
• Mold and moisture in our home can affect our lungs and eyes;
• Cockroaches, mice, rats or fleas affect the health of people in the home;
• In order to have a clean home, we must air the rooms, vacuum, wipe the dust from the furniture, wash the floor, tiles, tiling, wash clean and tidy in the cupboards;
• If kitchen utensils are not clean and sit on the table or in the sink, they attract microbes.

Game: *Hygiene rules!*

SCAN ME

Discover the words and find out how can you be healthty



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2

Human body

Little explorer



VII. Healthy food diet

The diet requires a balanced diet. The way people eat is important for maintaining health. Food is the source of energy for the body.

What is the nutrition pyramid?

By scanning the Qr code you will find out useful information about the nutrition pyramid.



Write down what would be the main food groups in our diet, following the image below:



.....
.....
.....
.....
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2

I am smart!

Human body

Fill 4 glasses or 6 cups with one liter of water. Explain this.
How many glasses or cups are needed to pour 2 liters of water? But for 5 liters of water how many glasses or cups are needed?



Two children brought water from the spring. Find how much water they brought together if they each filled one 2.5 liter bottle, two 1.5 liter bottles and 3 500ml bottles.



4 crates with 236 eggs each were sent from a poultry farm. Some were put into 70 boxes with 8 eggs each, which were sent to grocery stores. The rest were sent to 3 confectioneries equally, from which they made cakes. 8 eggs were used for each cake plate. How many trays did the eggs received by a confectionery reach?



A quantity of 438 kg of potatoes, tomatoes a quantity 3 times smaller than that of potatoes, and peppers a quantity 2 times smaller than that of tomatoes was brought to an grocery. What amount of vegetables were brought in total to the grocery?



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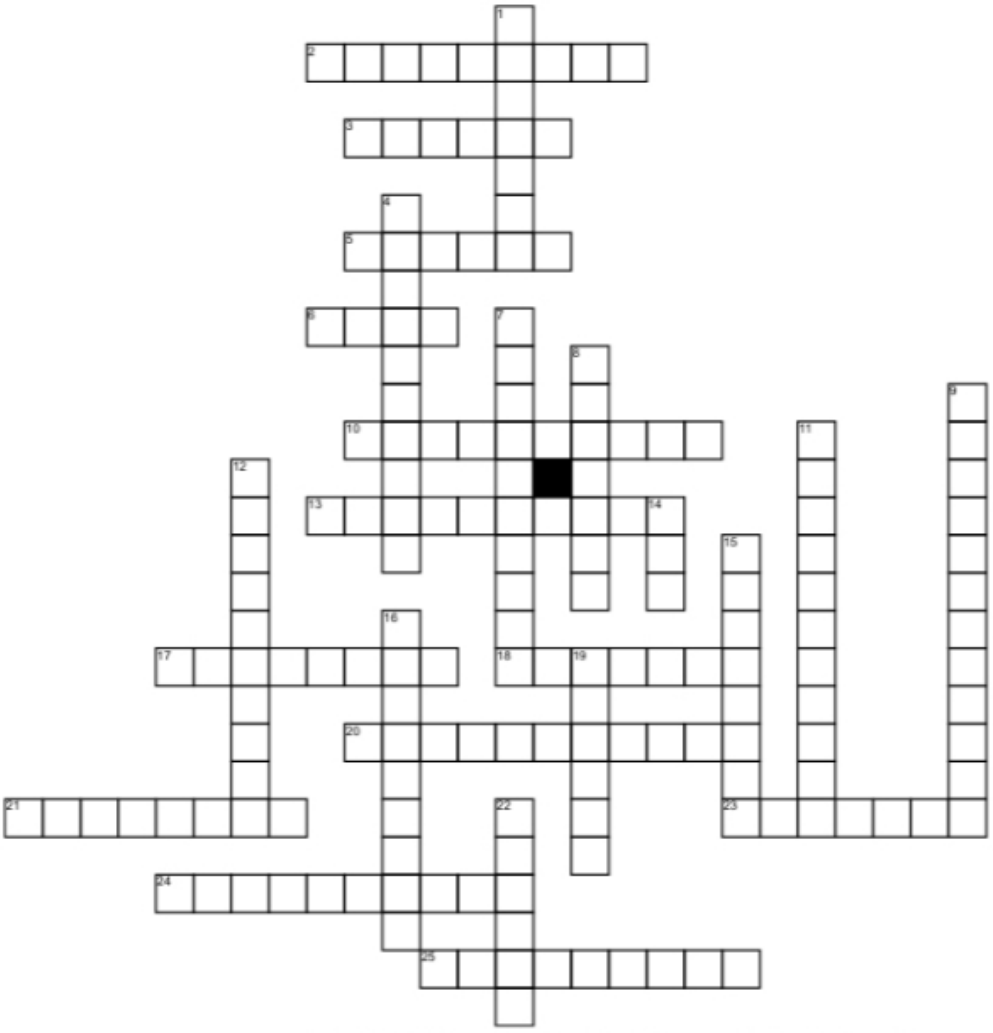
2

Human body

Crosswords puzzle

Complete the puzzle with the appropriate information:

Nutrient Crossword Puzzle



Across

2. This is one type of bad fat
3. Main source of carbohydrates is_____
5. Fat helps form coverings around this
6. Complex carbohydrates are _____ for your health
10. This is one type of lipoprotein
13. These are chemical building blocks that make proteins
17. Part of a system in your body
18. One of the animal sources of protein are
20. This type of iron is found in plant sources
21. Sugars found in fruits are called _____
23. This type of fiber reduces levels of cholesterol in the blood
24. This is one of the 2 types of proteins
25. Sucrose come mainly from sugar beets or _____

Down

1. Sugars found in milk are called _____
4. Iron builds this substance that carries oxygen in your blood
7. Starches can be found in this
8. Fat acts as a _____
9. By eating too much fat, you can get this
11. This is not a fat
12. Proteins are used to make_____
14. One iron absorption inhibitor
15. A food containing heme iron
16. This fiber absorbs water like a rake
19. The lack of iron in your diet can cause this
22. Fiber does NOT provide the body with this

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2

Helath education

Human body

Compose a text of 10-12 sentences in which you present why it is important to follow the rules of hygiene.



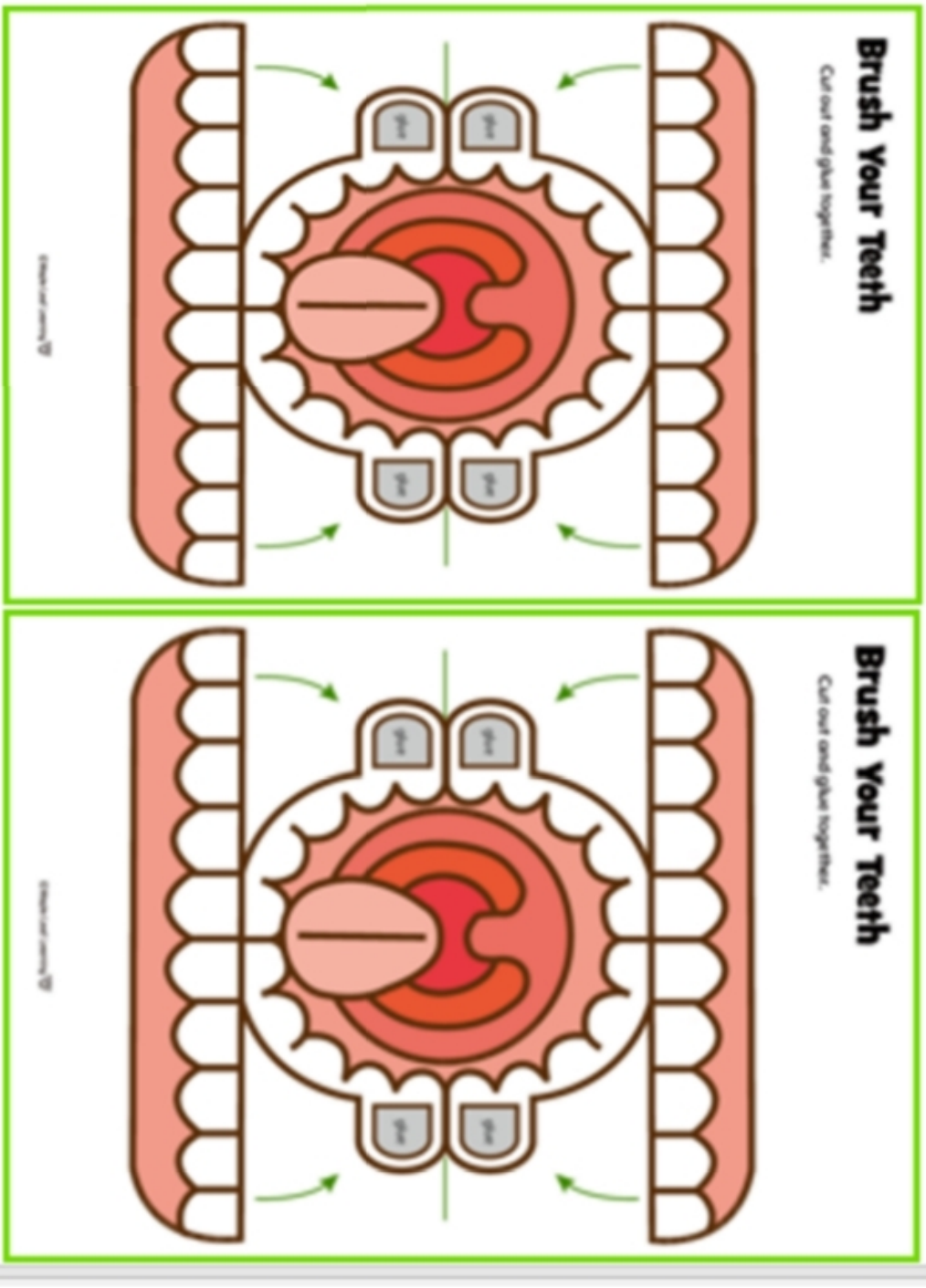
When writing the text you will consider:
– the existence of the component parts: introduction, content, conclusion;
– the logic of chaining ideas;
- formulating an opinion regarding the given topic;
– clear statement, consistent with the opinion formulated;
– referring to personal or cultural experience in the development of any argument/example;
- the use of literary language (vocabulary according to the theme, clarity of pronunciation, spelling, punctuation, placement on the page, readability).

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2

Human body

Appendix 1



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2

Human body

Recapitulation

Read the following text carefully:

Muc's father, whose real name was Mucrah, had been a man of wealth in Nicaea, but he was very poor. He lived almost as lonely as his son lives today. He didn't really like Muc - he was ashamed of his dwarfish appearance and let him grow up at the will of chance, with a mind unenlightened by learning.

At sixteen, Muc was still a cheerful child, but his father, a man stingy with a smile, only had words of reproach for him: that for his age he is still too childish, immature, and even stupid...

One fine day, the old man fell ill and that's where he died. Muc cel Mic was left alone in the world, ignorant and poor.

The canine races, to whom his father had remained deeply in debt, chased the poor boy out of the house, telling him to go out into the wide world to seek his fortune. Muc cel Mic was happily on his way. He had only one request: to be given his father's robe. His prayer was granted at once. The clothes did not suit him at all, because his father had been a strong and tall man. But Muc didn't think long: he cut their legs and dressed them. But he had forgotten to tighten them, and that's why his clothes, which he still wears today, look so strange: the huge turban, the wide belt, the wide trousers, the little blue fringe, they were all a parental inheritance and he wore them ever since . Ba tucked his father's long hanger with flourishes into his belt, took a stick and started on his way.

For two days and two nights he wandered bitterly and hungry, but still no luck; his food was only the fruits of the field, and he slept on the hard ground. At the dawn of the third day, from a height he saw a large fortress. Still caroling like that, Muc arrived in front of a large, handsome house and just as he was looking at it with a lot of thought, a window opened and an old woman appeared



who cried out in a singing voice:

Let's run!
Come on, run away!
Full, full is the small town!
Come, neighbors, to us!
The table is set for you.
Neighbors, run away,
Full, full is the small town!

And at the door of the house came a rush of dogs and cats. Muc thought for a moment whether to give in to the temptation, but suddenly taking heart in his teeth, he followed a few kittens. Of course, they knew the way to the kitchen better than he did. On the stairs, Muc met the old woman he had seen at the window. The woman looked at him with a frown and asked him what he wanted.

- You called everyone to the table, answered Muc, and because I'm very hungry, I came too. The old woman laughed and asked:

- Where do you come from, strange man? Everyone knows that I only cook for my sweeties cats, and only from time to time I invite some guests from the neighbors to keep them company, as you can see.

Then Muc cel Mic told the old woman how hard it had been after his father's death and asked her to allow him to eat with the cats that day.

Touched by his sad story, the woman invited him into the house and gave him food and drink fed up After the plot gained strength, she looked at him for a long time and said:

- Muc, stay in my service! You won't bother yourself too much, and I'll take care of you. Little Muc bowed happily, for he had liked the cats' food.

Made with VISME

2

Human body

Recapitulation

And that's how he remained a servant at the house of Ahavți. The job was easy, but strange. Mistress Ahavti had two dogs and four cats. Every morning, Muc cel Mic combed their fur and gave them expensive pomades. When the mistress left home, Muc took care of the cats; at mealtime he would put small trays of food for them, and at night he would sleep them on silk pillows and wrap them in velvet scraps. But Muc's joy would not last long. When the old woman left home, the cats did not listen to the little man and did a lot of damage. So the old woman got angry and started giving Muc bad days. Then Muc decided to leave. And because the old woman had not paid him, he decides to take something as payment. With the help of a dog, he reaches a secret room, where he takes some coins because his shoes and a toegel were broken. Later he would learn that the rod and the leads were enchanted. He realized that it is not a clean thing with the conductors. Fly with them, not another. He tried in every way to stop, but in vain. Desperate, he began to shout, as if he had spurred some horses:

- Ptrrr... Ho... Ptrrr!

As if by magic the leads stopped, and Muc fell to the ground exhausted. Happy, but exhausted, Muc soon fell asleep. In the dream, his friend appeared to him, Mistress Ahavți's puppy, the one who had helped him find the leads; he pretended to say:

— My dear Muc, you don't know how to put the leads to good use; find out that if you were to turn with them three times on your heels, you would fly wherever you want; and with the rod you will find treasures, because if there is gold hidden somewhere, the rod will tell you by knocking three times in the ground; and if there is silver, only twice. (The Little Pig and the Charmed Leads, by Wilhelm Hauff)



Dictionary:
canine = about people and their manifestations: cruel, spiteful, evil
strai= item of clothing
turban = head covering consisting of a long strip of cloth, silk or canvas, usually white, worn by men in some oriental countries wrapped several times around the head
feregea = mantle or cape made of fine and thin fabric or silk, once worn by nobles or their wives over their regular clothing
hanger=large, curved dagger
jind= deep desire, lust (for something hard to get)
strachinuță= fired clay pot, ceramic, slightly deepened, used in the countryside instead of a plate
pomezi = perfumed cosmetic preparation, obtained from fatty substances, used for hair and skin care
conduri = shoes decorated with embroidery



Make sentences using the words explained in the dictionary:

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2

Human body

Recapitulation

Complete the puzzle with the appropriate information:

3 CROSSWORD

LEARN ENGLISH WORDS



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2

Recapitulation

Human body

Complete the following concept map with information from the text Little Muc and the charmed shoes:

Little Muc and the magic shoes

- Muc remained as a servant to lady _____
- Muc's father name is_____
- The objects took by Muc were _____ and _____
- Muc's evil kin _____ him from his father's house.
- With his magical shoes Muc was able to get to _____
- Muc's request to his kins was to give him his father _____



Explain the meaning of the highlighted expressions in the given text:

a.
b.
c.
d.
e.
f.
g.

Scan the following Qr Code and you will find out what the oldest shoes were. Write on the next space what you found out.

.....
.....
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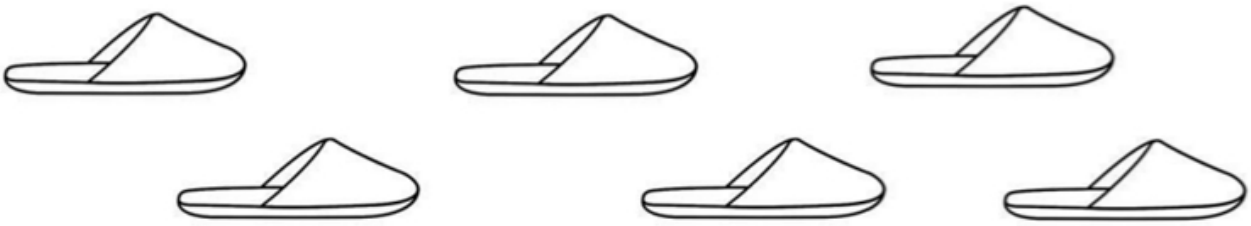
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2

Human body

Recapitulation

Write on slippers 9-digit numbers that can be formed with the following digits: 2, 0, 9, 7, find their predecessor and successor, then color them.



Predecessor	Number	Successor

Scan de code and solve the puzzle.



325 pairs are in production at the sports shoe factory. Each pair costs 135 lei. Round the amount that is collected when selling them to the nearest hundredth.



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2

Human body

Recapitulation

Scan the QR code to play the game "Find the pair!"



Write a text in which the main character is little Muc, after he has taken the lead and the rod. In your text you will respect the following requirements:

- you will present three of his facts;
- you will choose a title according to the composition;
- you will write the composition in 10-12 lines;
- you will take care of the correct writing of the words and the placement of the text on the page.

Made with VISME

2

Assessment

Human body



Read the following text carefully:

Having recently become friends with the rooster, the fox decided to laugh at him, so she invited him to her house one evening:

- Come, baby! Come on, sweetie! You will feel incredibly good!

The rooster did not wait long and came to the table. The fox cooked some semolina and put it on a shallow plate. Then he began to crow, saying to the rooster:

- Eat my friend, I cooked it myself, with my hand!

The rooster stuck his long beak into the bowl, knocked and kept knocking with it into the bowl, but in vain; he couldn't even get a mouthful. After eating all the semolina, the fox said:

- Don't feel offended, scumbag, but I have nothing more to give you to eat!
- Thank you, friend, for the meal! Come and visit me!

The next day, the fox appeared at the rooster's house, which brought a cold and tasty soup to the table. The rooster poured the soup into a jug with a long and narrow neck and urged his friend:

- My dear neighbor, eat! I have nothing else to give you.

The fox kept circling the pitcher, bypassed it sometimes from one side, sometimes from the other, tried to lick and sip, but did not choose a single drop. Meanwhile, the rooster sipped with his long beak, and kept sipping, until he swallowed all the soup.

The fox left with his tail between his legs. She was very upset because she thought she would eat for the whole week. He had nothing to do and returned home with an empty stomach.

(The Fox and the Rooster - Russian folk tale)

Dictionary:

to make up one's mind = to have the intention of doing a certain thing
plate = flat wooden, burnt earth, metal bowl, from which to eat
to indulge = to eat something particularly tasty
in vain = for nothing, useless
with the tail between the legs=saved, humiliated

Make sentences using the words and expressions explained above.

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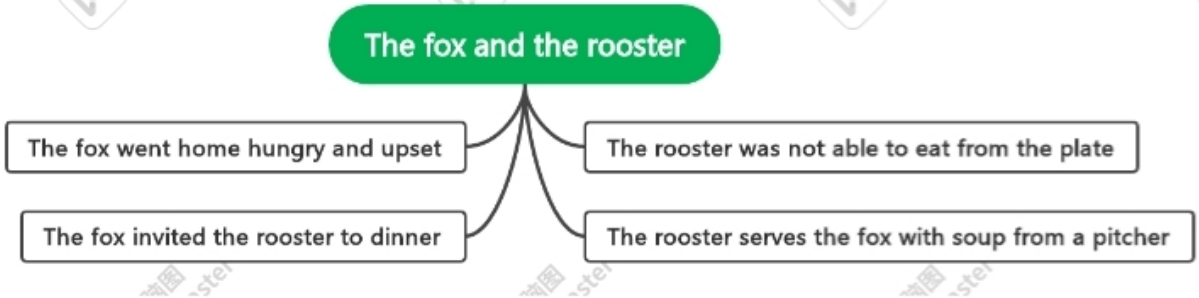
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2

Human body

Assessment

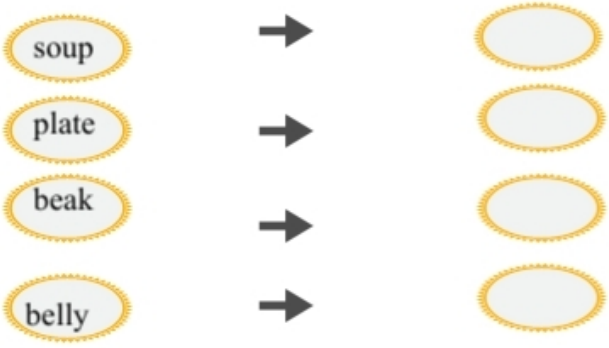
Order the events as they happened in the text on the concept map below:



Determines the truth value of the sentences. Write A (True) or F (False) next to the statements below.

The characters of the text are the fox and the rooster.
The fox invited the rooster to the theater.
The rooster served all the food offered by the fox.
The soup was placed on a flat plate.
The fox went home hungry.

Select from the text a suitable adjective for the nouns below:



Write a proverb according to the text:

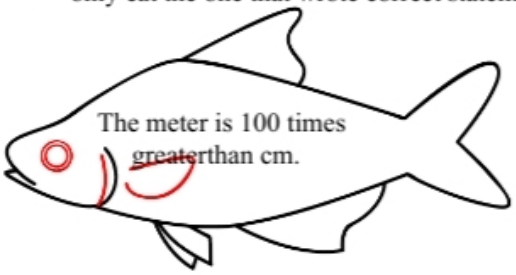
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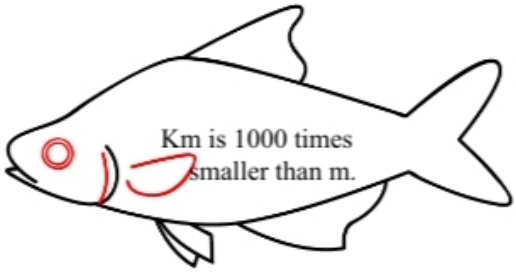
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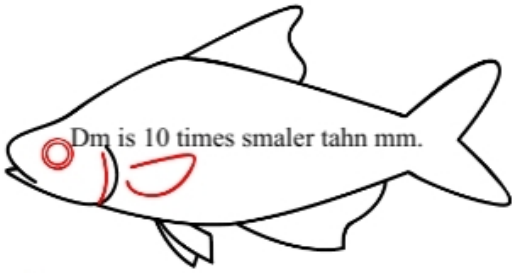
Assessment

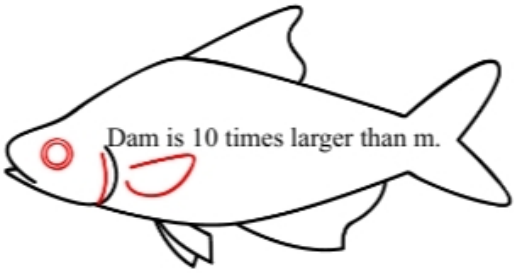
Human body

Leaving the rooster's table hungry, on the way home, the fox found some fish, but he can only eat the one that wrote correct statements:









After feasting on the fish, the fox set off, completing the following statements with Roman numerals. Write down what she completed.

Year of your birth: _____
The year I started first grade: _____
The year we are in: _____
The year I will finish the 4th grade: _____
The month your grandfather was born:_____
Year of your mother's birth: _____
Your grandmother's birthday: _____
Year of birth of your brother/sister: _____
Your grandfather's age: _____
Your father's age: _____



360 kg of trout, placed in 12 crates were sent to a store. Each trout is 200 grams. How many kg were in each crate?



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2

Human body

Assessment

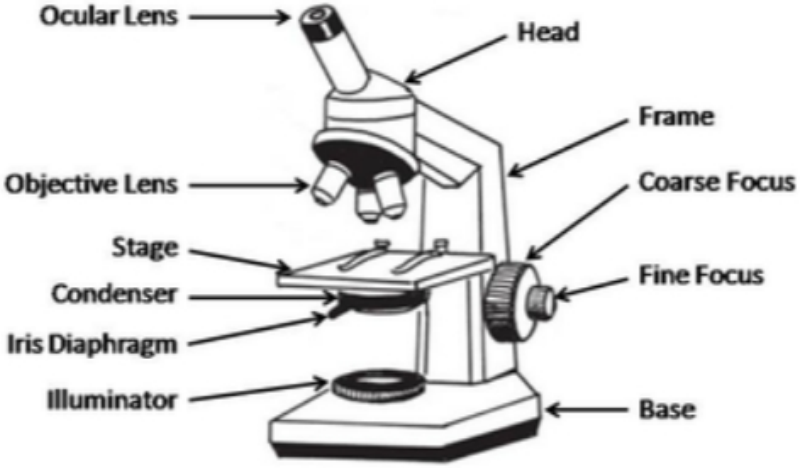
Complete the puzzle with the appropriate information:

Microscope Parts

Z	C	A	E	V	O	C	U	L	A	R	L	E	N	S	O	M	F
H	O	O	B	J	E	C	T	I	V	E	L	E	N	S	H	Y	Z
E	A	X	I	R	I	S	D	I	A	P	H	R	A	G	M	I	F
A	R	N	T	L	J	O	I	F	G	F	B	E	N	A	K	M	I
D	S	S	H	F	L	M	F	G	N	Q	R	P	O	L	I	J	N
C	E	W	T	R	T	I	L	L	U	M	I	N	A	T	O	R	E
A	F	C	K	A	O	I	C	P	N	Z	S	I	Q	U	L	H	F
E	O	C	A	M	G	R	P	S	B	T	Y	N	T	A	C	K	O
E	C	O	H	E	C	E	Z	C	O	N	D	E	N	S	E	R	C
Z	U	R	O	G	Z	U	W	P	H	B	E	D	H	K	P	C	U
L	S	M	O	F	N	N	T	O	Q	G	J	R	R	K	Z	H	S
Y	Z	S	B	A	S	E	Y	N	M	Y	J	G	J	M	M	Y	R

Words are hidden → ↓ and ↘

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Scan the QR code and discover the game: "What does each animal eat?"

SCAN ME

Made with VISME

2

Assessment

Human body

Imagine you have a guest at the table, write a text consisting of 8-12 statements in which you present the preparations you have made for this occasion.

In your text you will respect the following requirements:

- orient yourself according to the questions in the attached QR code;
- you will choose a title according to the text;
- you will take care of the correct writing of the words and the placement of the text on the page.

SCAN ME

Solve the puzzle by scaning the QR code.

SCAN ME



Made with VISME

3

THE SOLAR SYSTEM

The Sun

Read the text carefully:

The Sun is the largest celestial body positioned at the center of the Solar System. Its dimensions are more than a million times larger than Earth's, and the distance between Earth and the Sun is 150 million kilometers. It is spherical in shape and consists of continuously burning gases, the hottest area being in its center, where the temperature reaches 14 million degrees Celsius. Outside, the temperature drops considerably, reaching 20 thousand degrees Celsius.

Dictionary

star = body located on the celestial vault (star, planet);
prism = piece of glass or other transparent material;
transparent = through which one can see clearly;
sunstroke = sickness caused by the sun's rays which is manifested by fever, headache, dizziness, nausea.

The Sun is a source of light for all other heavenly bodies as well as for the planets. In general, the light from the central star is white. Over time, with the help of a transparent prism, it was demonstrated that the light ray is made up of several colors: red, orange, yellow, green, blue, indigo and violet. These colors are known by the abbreviation ROGVAIV. Right after the color red are infrared rays which produce heat. The maximum intensity is felt between 12-4pm and can cause sunstroke and skin burns. In continuation of the purple color, there are ultraviolet rays, which appear in the early hours of the morning, usually until 10 o'clock, and thanks to which we tan.

For our planet, the Sun is a natural, indispensable source of light and heat. All living things, humans, animals, plants need its light and warmth to go through all the stages of their life cycle. Also, most activities take place during the day due to the light and heat from the Sun.

Make sentences using the words explained in the dictionary.

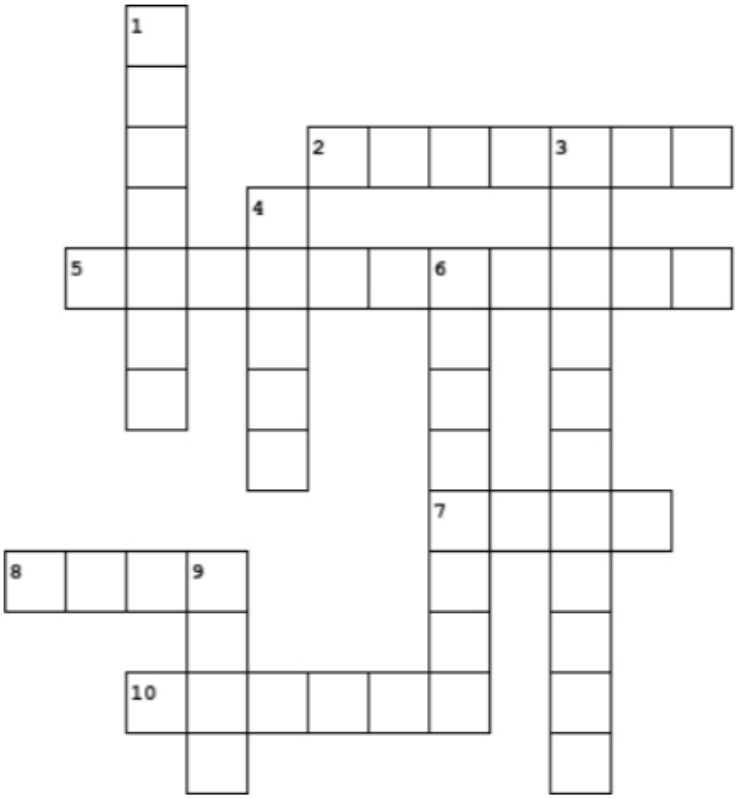
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3

The Solar System

The little explorer

Fill in the crossword with the appropriate information:



Across

2. Very high temperatures can cause burns on skin
5. ...
7. The Earth moves around its own ...
8. We feel the infrared rays in the form of the ...
10. ...

Down

1. With the help of the transparent prism it was proved
3. Following the purple color there are ..... rays
4. A piece of glass or other transparent material
6. Beyond the red color are the ..... rays
9. the ray of light is made up of different colors,

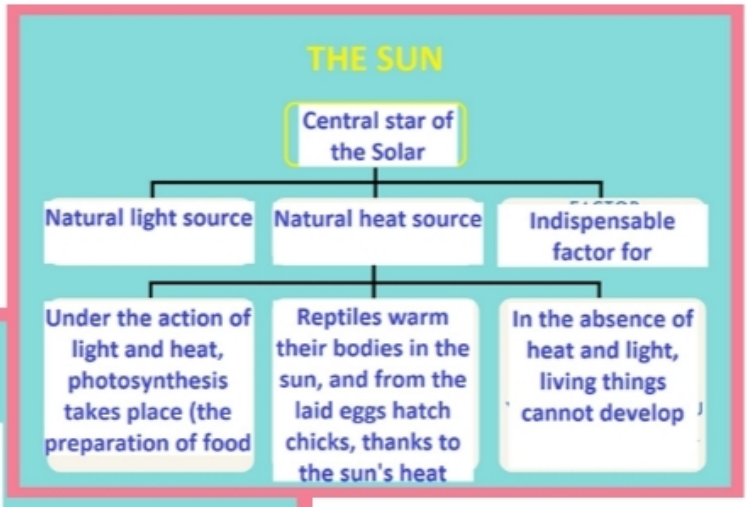
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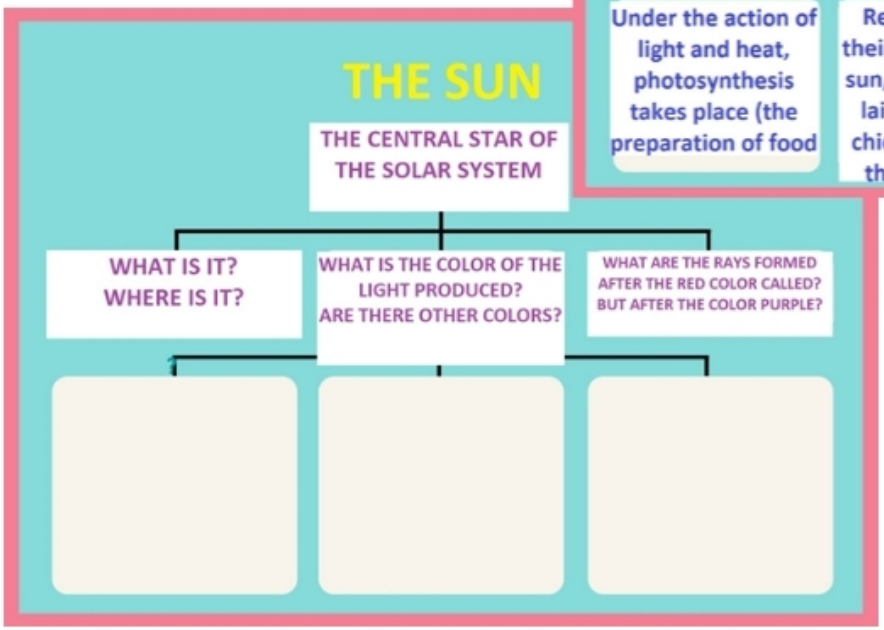
3

The Solar System

The little explorer

Complete the concept map according to the given model:

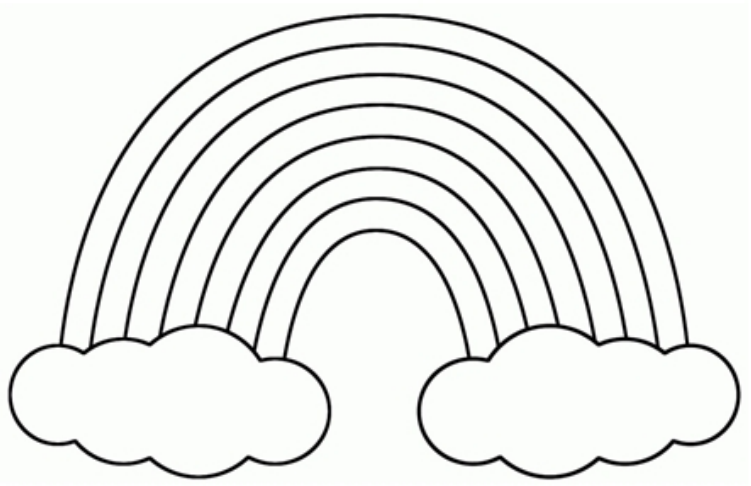






Connect each color with a line to its position in the rainbow.
Color the rainbow according to the chosen code.







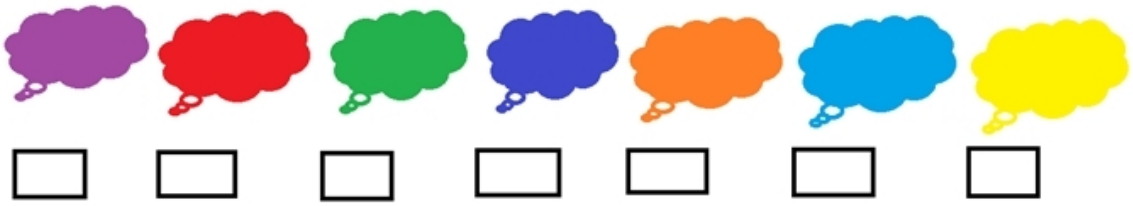
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3

The Solar System

The little explorer

Sort the colors correctly according to their position in the Solar spectrum.
Write the appropriate number in the box.



Fill in the statements:

The Earth receives from the Sun …….. and …… .
The sun is made up of …… that burn continuously.
The sun rises at …. and set to …….
The light from the sun is light …….. .
Beyond the red color are the ……..……..
rays.
In the continuation of the purple color are the ……..……
rays.

Made with VISME

3

The Solar System

I'm smart!

Write the following in numbers:

fourteen million - _____
one hundred and fifty million - _____
one million three hundred – _____
twenty thousand - _____

Write the following numbers in letters:

30 000 - _____
560 000 - _____
4 378 918 - _____

Activity in pairs. Didactic game - Who reaches the Sun first.
Solve the exercises from the bottom up!
Calculate!



9 500 – 4 952 + 4 201 =

694 x 3 + 63 : 9 =

6 392 + 72 : 9 : 4 x 6 + 10 591 – 1999 =

7 010 – 3 789 + 5 461 =

Made with VISME

3

The Solar System

Compose a text of 8 -12 statements in which you present the impact/negative effects that ultraviolet and infrared rays have on health. Give examples of real life situations.

When writing the text you will consider:
– the existence of the component parts: introduction, table of contents, conclusion;
– the logic of chaining ideas;
- formulating an opinion regarding the given topic;
– clear statement, consistent with the opinion formulated;
– referring to personal or cultural experience in the development of any argument/example;
- the use of literary language (vocabulary according to the theme, clarity of pronunciation, spelling, punctuation, placement on the page, readability).

Scan the code to compose a letter on the given topic. Don't forget to send the letter to the teacher's address!

Scan the code and solve the puzzle.

Made with VISME

3

The Solar System

The movements of rotation and revolution

Read the following text carefully:

Earth - Terra - or the Blue Planet performs two types of rotations: around its axis and around the Sun. These movements cause important changes at the level of the planet. The rotation that the Earth makes on its axis, from West to East, in about 24 hours is called rotational motion. Due to the rotation movement, day-night alternation occurs on the Earth's surface. On the side exposed to the Sun it will be day on the planet, and on the opposite surface it will be night. That is why the day-night cycle is different at the level of the globe. Thus time zones were created, and the time is different from state to state. Also for this reason, the temperature varies during the 24 hours.

The movement that the Earth makes around the Sun, in an imaginary orbit, for 365 or 366 days, is called revolution movement and determines the formation of the four seasons: spring, summer, autumn and winter. This process is due to the discrepancy of light and heat that the Earth receives from the Sun. The distance of the planet from the Sun is not the same throughout the calendar year. During this circular motion, certain portions of the Earth are closer to the Sun and others are further away.

As a result of the two rotations of the Earth, our planet undergoes major changes in weather conditions, depending on each season. In Romania, spring is the season that brings nature back to life. It starts in March and ends in May. The air temperature begins to register high values, the day increases more and more, at the end of March the switch to summer time is made. On the last Saturday of the month, 3 o'clock becomes 4 o'clock. Precipitation is relatively abundant, usually in the form of rain, varying by area. In the mountains and hills, they are in larger quantities, and in areas with lower altitudes - in the plains, the quantities are smaller.

The winds blow moderately, with some intensification on the mountain ridges. In the middle of the year, the month of June installs the long-awaited season in the country - summer. The temperatures are very high, the sun strongly heats the Earth, and heatwaves are frequently felt. Precipitation is reduced, which is why drought sets in. Winds blow much less often, but sometimes they also produce violent storms. The day is longer than the night because the planet is tilted more towards the Sun. With the end of August, the summer season also ends.

The most fruitful season of the year is autumn. It starts in September and ends in November. The air temperature starts to drop, the precipitation in the form of rain is more abundant, but there is also frost, sleet or even snow. The winds intensify, are colder and dry the vegetation. The days are getting shorter and the nights are getting longer and cooler. At the end of October, Romania switches to winter time. On the last Saturday of the month, 4 o'clock becomes 3 o'clock.

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The Solar System

The last month of the year, December, sets up the winter season in our country. Cold and frost characterize this whole period, with very low temperatures. Precipitation is mostly in the form of snow, and the prevailing wind is Crivățul. The days are short and the nights are long and frosty. Winter ends in February.

Planet Earth is in continuous rotation along with the rest of the planets and bodies in the Solar System. The two types of rotations it makes are imperceptible to humans, but their impact is felt in everyday life.

Dictionary:

state = country, homeland;
time zone = portion of the earth's surface between two meridians of whose longitudes differ;
meridian = measuring the height of a star;
Crivăț = strong and cold wind that blows in winter in Moldova and in the Danube Plain from there Northeast, bringing great temperature drops;
altitudes = heights;
discrepancy = discrepancy, difference, distinction, variation;
imperceptible = which cannot be perceived;
heat wave = temperatures with very high values, high heat;
drought = lack of water, insufficient soil and atmospheric moisture

Make sentences using the words explained above:

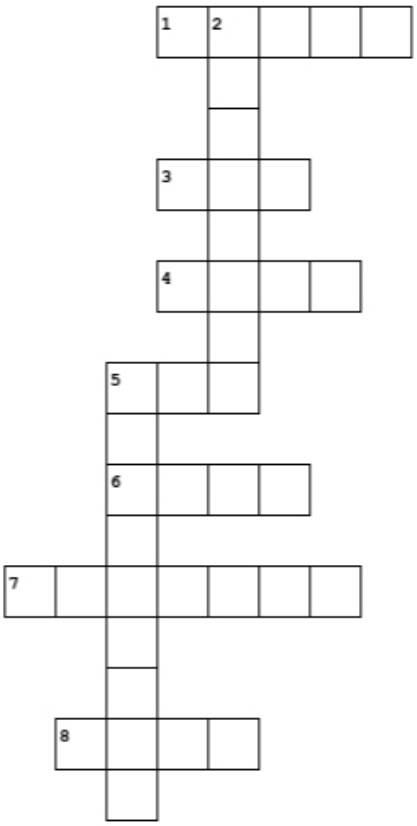
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The Solar System

Fill in the cross word with the appropriate information:

Earth's rotation and Earth's orbit



Across

1. The appearance of the four seasons is due to the
3. On the surface of the planet exposed to the Sun
4. be ... and again on the opposite surface it will be
5. The white light comes from the .....
6. The sun is a natural source of light and .....
7. .....
8. The sun is also called ..... of fire

Down

2. Day-night alternation occurs due to the Earth's .....
5. Geometrically, the Sun is shaped .....

Scan the QR code!

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The Solar System

Complete the concept map:

Characteristics of the seasons - temperature, precipitation, winds, day-night alternation



Scan the QR code and solve the puzzle

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The Solar System

Complete the statements:

The day-night alternation occurs due to …… .

Seasons are formed due to ……..... .

The rotational motion of the Earth lasts …….. .

Earth's revolutionary movement lasts …….. .

In (the season) ……. nature comes back to life.

In (the season) …… the vegetation withers and dries up.

Didactic game - Save the Planet!

Scan the code and save the planet!

Classify environmental protection activities according to the category they belong to.
So YES! – Protecting the planet – positive behaviors that must be implemented
So NO! – Pollution - negative, harmful behaviors that we must never commit

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The Solar System

Determine the truth value of the following sentences. Write A next to the true sentences and F next to the false sentences.

During winter, the day gets shorter and shorter and the temperatures drop drastically.

Spring is the most fruitful season of the year.

In autumn, nature comes back to life and the temperatures start to rise.

The revolution of the Earth lasts 365 or 366 and determines the alternation of day and night.

For 24 hours the Earth rotates around its axis and thus the seasons are formed

---

Compare the numbers next to the rotational motion with the numbers next to the revolution.

rotational motion

989 426	989 426
641 301	599 789
700 066	700 660
274 652	27 456
900 099	897 654

revolution motion

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The Solar System

I am smart!

Solve the problem corresponding to the season in which you were born:



WINTER

An ice cream factory produced 275000 fruit ice creams in one day, with 167942 less vanilla ice creams, and chocolate ice creams equal to the difference between the number of fruit ice creams and the number of vanilla ice creams. How many ice creams were produced on this day?

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The Solar System

I am smart!

SPRING

In one bookstore there are 196321 children's story books, in another bookstore there are 100033 more, and in another a number equal to the difference between the numbers 300100 and 187,654. How many story books are there in the three bookstores?

SUMER

At a supermarket, 235 kilograms of pears were sold at the price of 9 lei/kg, 420 kilograms of cherries at the price of 32 lei/kg and 638 kilograms of strawberries at the price of 28 lei/kg. How many lei were collected from the sale of the fruit?

ATUM

936 148 kilograms of wheat were harvested from one field. Half of the quantity was distributed to the mill for which flour was received in return, and the other half was sold for export at 7 lei per kilogram.
How much flour was received in exchange for wheat? How many lei were obtained from the sale of wheat?

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3

The Solar System

Write a text of 10-12 sentences in which you present your favorite activities that you do in each season.

When writing the text you will consider:
– the existence of the component parts: introduction, content, conclusion;
– the logic of chaining ideas;
- formulating an opinion regarding the given topic;
– clear statement, consistent with the opinion formulated;
– referring to personal or cultural experience in the development of any argument/example;
- the use of literary language (vocabulary according to the theme, clarity of pronunciation, spelling, punctuation, placement on the page, readability).

Scan the code to listen to Vivaldi's "Seasons" as you write.

Scan the code and draw your favorite season.

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3

The Solar System

The Planets

Read the following text carefully:

The Solar System consists of the central star – the Sun and the eight planets that rotate in their own orbits around the Sun. Planets are celestial bodies without their own light, satellites of the Sun, which are seen in the sky in the form of a bright point, as a result of the reflection of sunlight. There are two types of planets in the Solar System. Telluric planets - Mercury, Venus, Earth, Mars, which are composed of rocks and metals, and gaseous planets - Jupiter, Saturn, Uranus, Neptune. They may have natural satellites – celestial bodies that move around the planets; or artificial satellites, which have been created by humans. The Moon is the only natural satellite of the Earth. The Sun's role is to light and warm the planets. There are eight planets in order of their position relative to the ball of fire on the firmament. Mercury is the closest planet to the Sun and the smallest. It has no natural satellites, and the surface is full of craters. There is almost no atmosphere on this planet, which is why the temperature differences vary from -173 degrees Celsius at night to 427 degrees Celsius during the day in the equatorial regions.

The second planet of the Solar System, Venus, is visible from Earth and known as the
Moonlight. It is the hottest planet because it has extremely high temperatures. On the surface the temperature exceeds 462 degrees Celsius. Oceans are thought to have existed on its surface, but due to the extreme heat, they evaporated. Currently, the planet's surface is desert-like with rocks and volcanoes. The planet's name appears to be inspired by the Roman goddess of love and beauty, Venus. Terra (Earth) or the Blue Planet is the only planet on which life exists and it originated 4.5 billion years ago. The average temperature on the surface of the planet is 14.9 degrees Celsius. Approximately 71% of the Earth's surface is covered by water, the remaining 29% being represented by continents and numerous islands. About 8 billion people live on Earth, in about 200 countries.

The fourth planet in the Solar System, Mars, is also called the Red Planet. The red color is due to the iron oxide that is present in the Martian soil. The average surface temperature is -63 degrees Celsius. Mars has two small natural satellites (Deimos and Phobos) that are believed to be asteroids pulled by the planet's gravitational pull or remnants of an impact with another celestial body. Jupiter is the largest planet in the Solar System. It has satellites that exceed the size of the planet Mercury. On the surface, temperatures drop to -161 degrees Celsius.

The sixth and second largest planet is Saturn. It has a ring system surrounding it, made up of tiny particles of ice, rock and dust. Uranus is the third dimensional planet. Temperatures on the surface are low and storms occur frequently. Here are the lowest temperatures, - 197.2 degrees Celsius, and the wind reaches a speed of up to 900 kilometers per hour.

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The Solar System

Uranus completes one revolution around the Sun in 84 calendar years. Neptune is the farthest planet from the Sun. It makes a complete rotation around the Sun in 164 years. The surface temperature is between – 201 and – 218 degrees Celsius. Violent storms occur on the surface of the planet. Since 2006, when the criteria for classifying planets were changed, Pluto is no longer considered a planet.

In the Solar System there are other celestial bodies called asteroids and comets. Asteroids are satellites of the Sun, smaller than the planets. Comets are star-shaped "tails" made of gas and dust.

Dictionary:

rock = natural mineral that makes up the earth's crust;
crater = the upper part of a volcano, shaped like a funnel, through which, during eruptions, vapors, gases, ash erupt and lava flows;
gravity = force of mutual attraction of all bodies in the Universe;
equator = imaginary line made at the intersection of the Earth's surface with the plane passing through its center, dividing the globe into two hemispheres.

Make sentences using the words explained above:

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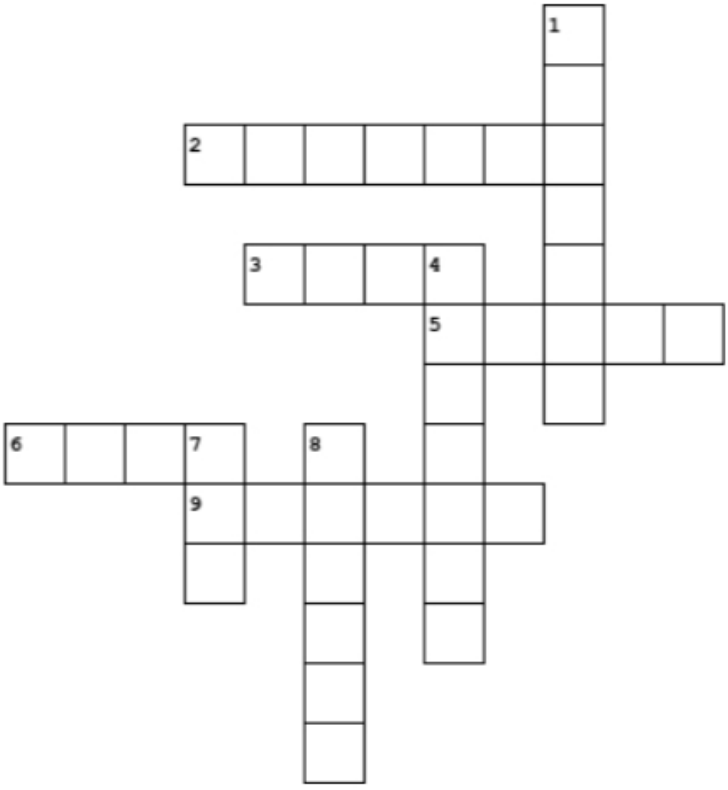
3

The Solar System

Let's play!

Complete the cross word with the appropriate information.

The Planets



Across

2. The largest planet in the Solar System
3. Natural satellite of Earth
5. The only planet with life forms
6. It is called the Red Planet because of its colored
9. The third

Down

1. The smallest planet
4. The fourth largest planet in the Solar System
7. Natural source of light and heat
8. The ring planet, the second largest in the Solar

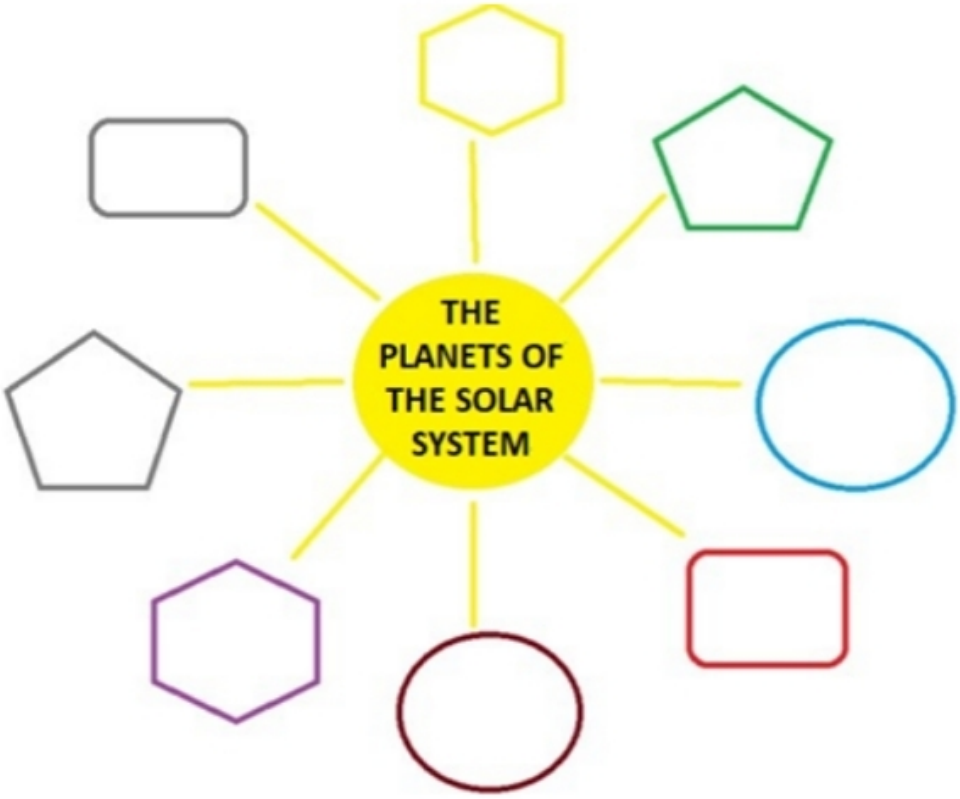
You can also do it by scanning the code on the right!

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The Solar System

Complete the concept map



Scan the code and solve the puzzle

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The Solar System

Fill in the sentences:

The largest planet in the Solar System is.....

Mars is also called..... .

Terra is also called ..... or.....

The only planet on which there is life is..... .

The closest planet to the Sun is ..... .

The farthest planet from the Sun is..... .

Establish the truth value of the following sentences. Write A next to the true sentences and F next to the false sentences.

Earth's natural satellite is the Moon.

Venus is popularly known as Luceafărul.

Neptune is the ringed planet.

Comets and asteroids are small planets.

Pluto is the smallest planet.

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The Solar System

I am smart!

Calculate and find out how many natural satellites each planet has

Mercury
1 812 x 0 + 729 635 – 729 635 =

Venus
2 x 61 234 – 61 234 x 2 =

Terra
121 596 – 121 595 =

Mars
1000 : 100 : 5 =

Jupiter
100 179 – 100 100 + (37 x 137 x 0) =

Saturn
60 000 – 59 971 + 8 x 4 + 1 =

Uranus
9 x 3 + 27 693 x 0 =

Neptun
4 + 520: 520 x 10 =

Sort the number of satellites of the 8 planets in ascending order.

Write the names of the planets in descending order, according to the number of natural satellites they have.

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The Solar System

Formulate a text of 10-12 statements in which you argue why you would or could not want to travel to space.

When writing the text you will consider:
– the existence of the component parts: introduction, content, conclusion;
– the logic of chaining ideas;
- formulating an opinion regarding the given topic;
– clear statement, consistent with the opinion formulated;
– referring to personal or cultural experience in the development of any argument/example;
- the use of literary language (vocabulary according to the theme, clarity of pronunciation, spelling, punctuation, placement on the page, readability).

Scan the code and recognize the planets of the Solar System.

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3

The Solar System

The legend of the Sun and the Moon



Read the following text carefully:

Once upon a time, the Sun and the Moon met and fell madly in love. That's when their love story began. God did not agree that they should leave the sky and decided that the Sun should light the day and the Moon the night, thus being forced to live alone... They were both very sad when they realized that they would never hug each other... The Moon was teary-eyed and hid behind the clouds every night to mourn her longing for the Sun. But he wasn't happy either... Even if he was considered the King of the stars, without her he didn't see his purpose in the sky.

God called them to him and said: *„You don't have to suffer and be sad, I have given you own radiance. You, wonderful Moon, will light up the cold or warm nights, you will delight the pairs of lovers, you will be the muse of the poets... While you, the strong Sun, will be the most important star and will light up the Earth and the beings every day, and your mere presence will bring joy to all."*

...The Moon left dejected and with tears streaming down her face... The Sun remained to make a cry to God: "God, help the Moon at least, she is more fragile than me, don't leave her alone in the dark!" ...And God, yielding to his plea, created billions of stars to keep the Moon company... But the Moon continued to cry in sorrow at the unjust fate she had... She complained to the stars and asked for their help, but they could only console her.....

And today, both live separately. The Sun pretends to be happy but burns with passion for her...and the Moon cannot hide her sadness and longing for her beloved sun...God told the Moon that she must always be happy and full, but she, being capricious, does not always succeed in this thing…So most nights it's cold and dreary and we can't see its glow…

They accepted their destiny…He, alone and strong…she, surrounded by stars and inconsolable…Humans tried in vain to conquer her…They reached her but returned alone without convincing her to come to Earth…

God, touched by their suffering, created the eclipse...And they live waiting for the rare moments that have been given to them to embrace each other... Their brilliance is dazzling the moment they touch...and it is impossible for us humans to look at the sky in those moments...It's the most beautiful love story ever lived...Beautiful and sad...

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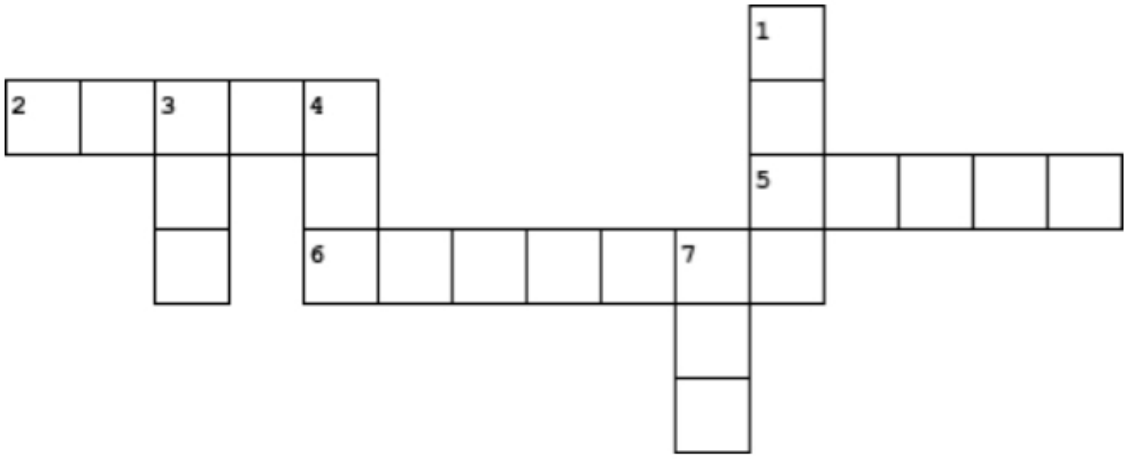
3

The Solar System

The little explorer

Solve the cross word below:

The Legend of the Sun and The Moon



Across

2. Time of day when the moon shines.
5. Celestial bodies with their own light that illuminate the night along with the moon.
6. Total or partial disappearance of the image of a star

Down

1. Inspiration for poets.
3. the creator of the Sun and the Moon.
4. Sun King of the stars.
7. The cosmic space in which the stars are located.

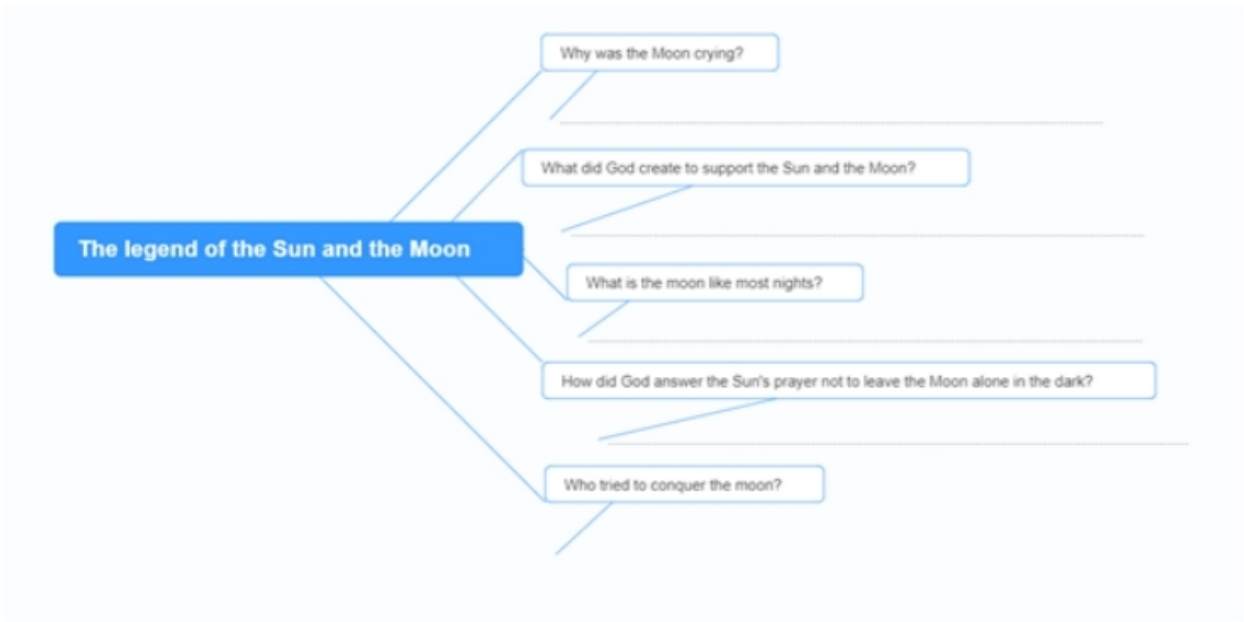
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The Solar System

The little explorer

Fill in the following concept map, giving the correct answers:



Identify, in the indicated paragraph, the following: 3 common nouns, 3 adjectives, 3 verbs and 3 personal pronouns.

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The Solar System

The little explorer

Find out the year in which man walked on the Moon by writing the number below in Arabic numerals:

MDCXIX

Scan the code and solve the puzzle.

Find out the name of the American astronaut, test pilot and naval pilot, known as the first man to walk on the Moon, by sorting the numbers on the board in descending order:

E-24701, A-21009, S-19001, N-25000, T-17183, I-23006, O-16728,

M-19010, N-15557, R-19999, G-13204, L-21019, R-17005

Response: ……..

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The Solar System

I am smart!

Scan the code to get to the game „The Millionaires”.



The sun rises and sets at different times. Look at the table below carefully, then answer the questions.

Sun / Day	The time it rises	The time it sets
01.08.2023	05.48	20.43
02.08.2023	05.49	20.42
03.08.2023	05.51	20.40
04.08.2023	05.52	20.39
05.08.2023	05.53	20.37
06.08.2023	05.54	20.36
07.08.2023	05.56	20.34
08.08.2023	05.57	20.33
09.08.2023	05.58	20.31

1. What time does the Sun rise on 08/06/2023?
2. What time does the Sun set on 08/03/2023?
3. How many minutes later does the sun rise on 08/09/2023 compared to 08/01/2023?
4. On what day does the sun set the earliest?
5. On which day does the sun rise 8 minutes before 06:00?

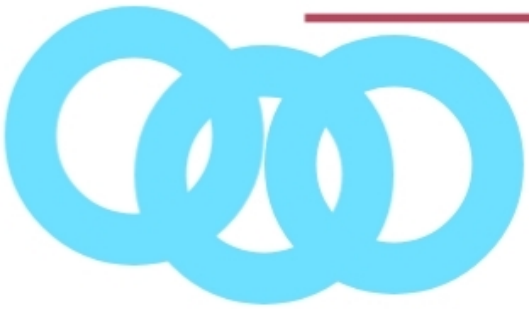
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The Solar System

In the box below are the poets who addressed, in their poems, the theme of the Sun, respectively the Moon.
Write the coordinates where each poet's name is located.

Example:
Mihai Eminusecu – A2



Veronica Micle –

Camelia Oprița –

Alexandru Macedonski –

George Coșbuc –

Nichita Stănescu –

Ana Blandiana –

Adrian Păunescu –

Alexandru Depărățeanu –

	A	B	C
1	Alexandru Deparațeanu "Nothing new under the sun"	Ana Blandiana "Tangent Moon"	Nikita Stanescu "Moon in the Field"
2	Mihai Eminescu "The moon comes out of the woods"	Camelia Oprița "Roots and Sun"	Alexander Macedonski "Excellent"
3	George Cosbuc "Summer Night"	Veronica Micle "Moonbeams"	Adrian Paunescu "Let's Hunt the Moonlight"

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Volcanoes

The Solar System

Read the following text carefully:

"Volcanoes formed 4 billion years ago, when the planet was at the beginning of its development. Although all volcanoes are made of hot **magma** that reaches the Earth's surface and erupts, there are different types of volcanoes.

Of all the types of volcanoes, there are three more important types: shield volcanoes, have the low-viscosity **lava** flow that flows tens of kilometers, stratovolcanoes are made up of different types of lava, ash and rock **eruptions** and grow to very high heights, cone volcanoes are usually smaller and originate from short-lived eruptions and only form a cone of about 400 m.

Volcanoes erupt due to built-up pressure that forces magma to rise. About 30 km below our feet is the Earth's mantle. It is a very hot region of **rocks** that extends to the core of the Earth. This region is so hot that molten rock can seep out and form huge bubbles of liquid rock called magma chambers. This magma is lighter than the surrounding rock, so it rises up, finding cracks in the earth's crust. When it sizzles to the surface, it erupts from the ground as lava, ash, volcanic gas and rock. It is called magma when it is underground and it is called lava when it erupts to the surface.

Volcanoes can be active, inactive or extinct. An active **volcano** is one that has erupted in historical times, shows some seismic activity, but is not at risk of erupting again. An inactive volcano is one that has erupted in historical times and has the potential to erupt again, but has not shown any activity recently. An extinct volcano is one that scientists believe will no longer erupt. Volcanoes can grow rapidly. Although it can sometimes take thousands of years to form, it can also happen to form all at once.

Volcanoes are dangerous. Among the most dangerous volcanoes is Krakatoa, which erupted in 1883 causing a tsunami that killed 36 000 people. When Vesuvius erupted in AD 79, it buried the cities of Pompeii and Herculaneum, killing 16,000 people. Mount Pelee on the island of Martinique destroyed a town of 30 000 in 1902. The most dangerous aspect of volcanoes are the deadly pyroclastic flows that explode down the side of a volcano during an eruption. They contain **ash**, rock and water traveling at hundreds of kilometers per hour and are hotter than 1 000 degrees Celsius.

The tallest volcano on Earth is Mauna Kea in Hawaii, with an elevation of 4 207 m. It is slightly higher than the largest and most extensive volcano on Earth, Mauna Loa, with an elevation of 4 169 meters. Both are shield volcanoes that rise from the ocean floor. If we could measure Mauna Kea from the bottom of the ocean to the top, we would get a true height of 10 203 meters (that's higher than Mount Everest). The farthest point from the center of the Earth is not **Mount Everest**, but the Chimborozo volcano in Ecuador."

(source: https://www.tigrisor.ro/despre-vulcani-pe-intelesul-copiilor/)

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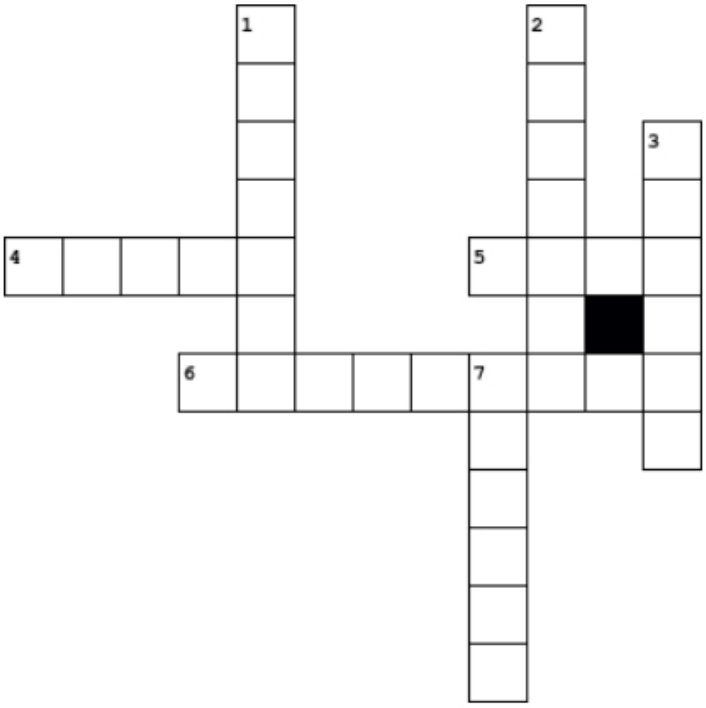
3

The Solar System

The little explorer

Vulcanos

Complete the cross word with the appropriate information:



Across

4. a mixture of molten or semi-molten rock
5. hot molten or semifluid rock erupted from a volcano or fissure, or solid rock resulting from cooling of this
6. conical volcano built up by many layers (strata) of hardened lava, tephra, pumice, and volcanic ash

Down

1. a mountain that produces magma, lava, and ash and is formed by cracks in the Earth's surface
2. a giant, fast moving wave that is caused by an earthquake or volcano
3. a bowl-shaped geological formation at the top of a volcano
7. a type of volcano usually built almost entirely of fluid magma flows

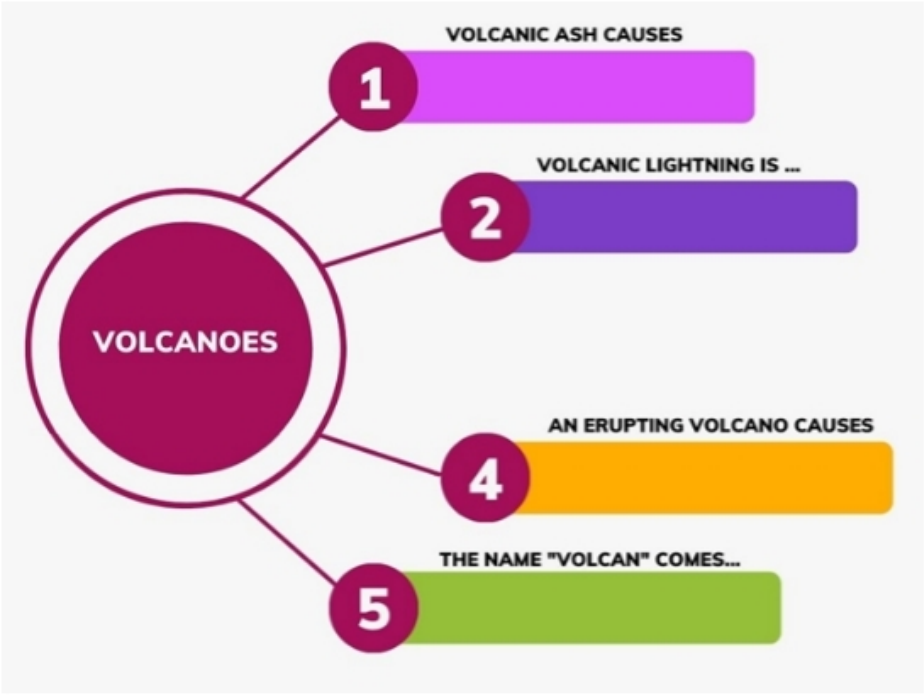
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The Solar System

The little explorer

Scan the adjacent code to read the ”Did You Know” column, then complete the concept map by providing the correct answers.



Make sentences with the bolded words in the text:

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The Solar System

The little explorer

Fill in the table, according to the information in the text:

Volcano/ year of eruption	79	1883	1902
Krakatoa			
Vesuvius			
Mount Pelee			

Solve the problem:

From the total number of people killed by the tsunami in 1883, subtract the number of those who disappeared along with the city of Pompeii, then add the number of inhabitants who perished as a result of the volcanic eruption on the island of Martinique. Add to the obtained result the altitude of the most extensive Volcano on Earth.



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The Solar System

I am smart!

Approximate to the order of thousands, the altitude of the Mauna Kea volcano in Hawaii (4207 m), and to the order of ten, the altitude of the volcano Mauna Loa (4169 m)..

Scan the code to identify as many of the words learned today as possible:

The Pacific Ring of Fire is the most extensive and active volcanic area on Earth, containing 75% of the world's active volcanoes.

It graphs the percentage of active volcanoes.



Scan the code and solve the puzzle:

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Natural disasters

The Solar System

Read the following text carefully:

"Natural disasters are catastrophic events with atmospheric, geological and hydrological origins that can cause deaths, material damage and social disturbances of the environment. They occur when the natural balance of forces influencing the earth is disturbed.

Natural disasters can strike the Earth at any time, but there are a few main disasters that occur more frequently. These are: hurricanes, typhoons, tropical cyclones, tornadoes and hail storms. Among such natural calamities are earthquakes, landslides, volcanic eruptions, floods, lightning, forest fires or tsunamis.

Romania is a well-positioned country in Europe, which cannot "boast" of the natural disasters that happen, sometimes, annually, all over the world. We are not exposed to tsunamis, for example. Or high intensity earthquakes like other countries. Of course, at one point in our history there was an earthquake that caused huge damage and a lot of loss of life: the 1977 earthquake. Over the last century, Romania has suffered 13 major earthquakes that have killed over 2600 people and affected over 400000 others. In 1977, more than 35000 families were left homeless by the catastrophic earthquake that caused more than €1.8 billion in losses in 55 seconds. Today, Bucharest still maintains the highest seismic risk profile of all EU capitals.

The country also suffers the most floods in the EU, with losses from floods exceeding up to 20 times losses from earthquakes in Romania's rural regions. In addition, climate change is increasing the frequency and severity of extreme weather events, from wildfires to droughts and flash floods. Bucharest ranks third among the 58 largest cities of the European Union where temperatures have risen the fastest.

The damage caused by these catastrophes cannot be measured or explained in words. Loss of life, destroyed homes and households can take a severe toll on a person's physical and emotional health."

(sursa: https://asirom.ro/stiri/blog/dezastre-naturale-definitii-exemple-si-termenii-asigurarilor)

Extract from the selected paragraph a natural disaster and indicate at least three consequences of it.

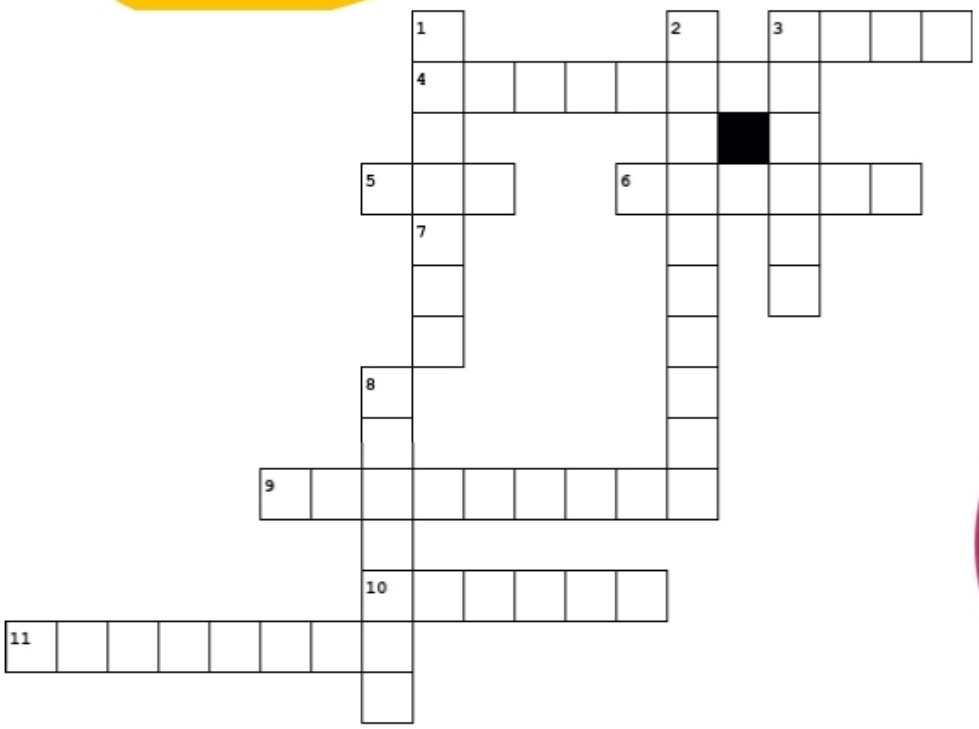
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The Solar System

The little explorer

Fill in the cross word with the appropriate information:



Across

3. large flames that includes a building, a forest
4. blockage of roads and railways due to large
5. destructive actions
6. winds and heavy snow
7. dry surface
9. strong wind often accompanied by torrential rains
10. snow deposited
11. severe storm characterized by low temperatures

Down

1. giant waves caused by earthquakes or volcanic eruptions under the sea
2. vibrations caused by the movement of tectonic
3. temporary covering with a large amount of water of
8. a whirlpool storm

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3

The Solar System

The little explorer

Visit the link below or scan the attached code to learn more about tornadoes. Read carefully, then complete the concept map, writing down 6 things you learned about them.

https://100-facts.com/interesting-facts-about-tornadoes/



Scan the code and solve the puzzle:

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3

I am smart!

The Solar System

Fill in the following table, selecting, from the indicated paragraph, all plural nouns:

Solve the problem:

Multiply by 15 the number of major earthquakes in Romania in the last century. Add to the result the amount of the division of the number of people killed by them and the number 13.

Write in Roman numerals the year in which the earthquake occurred that caused Romania losses of over EUR 1.8 billion and its duration.

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3

The Solar System

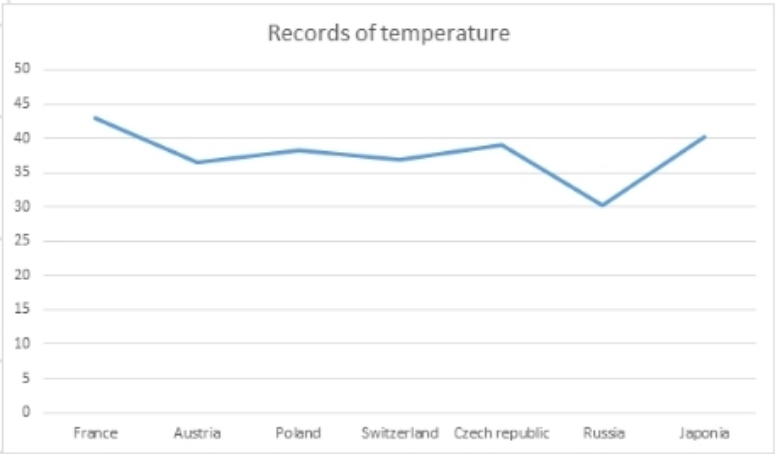
I am smart!

Go to the link or scan the code to identify as many of the words learned today as possible.
https://learningapps.org/display?v=p14dkwxja23

Climate change, which affects our planet, is among the causes of natural disasters. Temperature records have been set over time, as you can see below.

Location	Date	Temperature (°C)
Biarritz, France	18/06/22	42.9 °C
Feldkirch, Austria	19/06/22	36.5 °C
Slubice, Poland	19/06/22	38.3 °C
Beznau, Switzerland	19/06/22	36.9 °C
Husinec, Czech Republic	19/06/22	39.0 °C
Norilsk, Russia	23/06/22	32.0 °C
Isesaki, Japan	26/06/22	40.2 °C

Complete the graph below, using the data in the table:



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4

Computer and internet safety

Tools and things in our life



Read the text carefully:

„Ionuț is 13 years old and a student at a school from Bucharest. He moved to Bucharest two years ago, leaving behind primary school classmates and friends on the street where he lived in Constanța. Since he had failed to make new friends, he still cared very much about the old ones, whom he had only met twice in the last two years. He missed them. And if they didn't have many opportunities to meet and talk face to face, they spent a lot time on Messenger, WhatsApp, Instagram, Facebook and other social networks. He had a WhatsApp group and talked very often with two of his friends, David and Răzvan. They would send each other pictures, voice messages, links to websites or videos that were of interest to them. David and Răzvan posted pictures on Instagram almost daily and Ionuț was the first to give them a "like".

Although he had also created several social media accounts, he was not very active and was afraid of discovering his accounts by some schoolmates who kept bothering him whenever they got the chance. This happened especially when he was returning home. He was always followed by four or five older colleagues who made fun of him and called him "gag". One evening, they cornered him in the stairwell of a block of flats and told him that if he wanted to be left alone and join their gang, he had to give them the passwords to his social media accounts. Ionuț stutters that he doesn't know them by heart, that he has them written at home and will bring them tomorrow. The gang left him alone telling him not to dare show up to school without them.

Ionuț was dejectedly walking home when messages started flowing from Răzvan, who told him about a new game that was being played "online" and suggested that he go on the Internet to see a demo when he was getting home.



- Sorry, not today.
- Why? What happened? It's a great game, you have to see it.
- Yes, tomorrow.
– Hey, what do you have?
- Nothing, I had a fight with some colleagues at school.
- It's serious?
- No, we'll talk tomorrow.

He didn't even get home well when he got some phone messages:

I remembered my password!

Ha, ha, ha!

gag@ionuț gag!

Ionuț felt that his soul left his body. The link blinked blue, inviting him to press it. His heart was beating fast, fast and his hand was shaking on the phone button. To press? Not to press? He had no premonitions of anything good. Press. Next to a profile picture that resembled him appeared the name Ionuț The Gag.

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4

Tools and things in our life



A fake profile, with fake pictures, but it still had his face. He felt like he couldn't watch anymore. He put his exhausted head on the desk and let himself fall prey to the thoughts and emotions coming from inside. His cheeks were warm and his heart was pounding. He clenched his fists. He was angry, outraged and sad. "I can't accept this, I can't accept being harassed anymore! Neither at school nor on social media! I have to stop!"

Another beep on the phone made him startle, but he didn't get up. "I don't read any more messages", thought Ionuț. But the messages kept coming beep after beep. "I'm going to hang up," he said to himself. He swiped the screen and saw that the messages that kept coming were from Răzvan, who had remained worried because he had felt him angry. "I'm going to tell Răzvan", he said to himself. Maybe he has an idea on how to get out of this…" Ionuț called Răzvan and told him everything. Răzvan was shocked by what happened and told him that he is a victim online, and the colleagues who did this to him are called "cyberbully", that is, people who behave inappropriately online. He suggested that he tell his parents everything so that things don't degenerate. In the end, everything ended well. Ionuț told everything to his parents, and they took measures. The classmates who were harassing him were taken by the the police along with their parents. They must have felt sorry for their online "jokes".

Ionuț is calm now, especially since he knows he can rely on his parents, who now know everything about his online activity. Some time has passed since this incident, and he was no longer harassed.

Answer the following questions:

a. How did Ionuț keep in touch with his friends from Constanta?

_____

_____

b. What did the older colleagues ask Ionuț?

_____

_____

c. What feelings did Ionuț have when he felt bullied by his older colleagues?

_____

_____

d. What happened to the students who bullied Ionuț after their deeds were discovered?

_____

_____

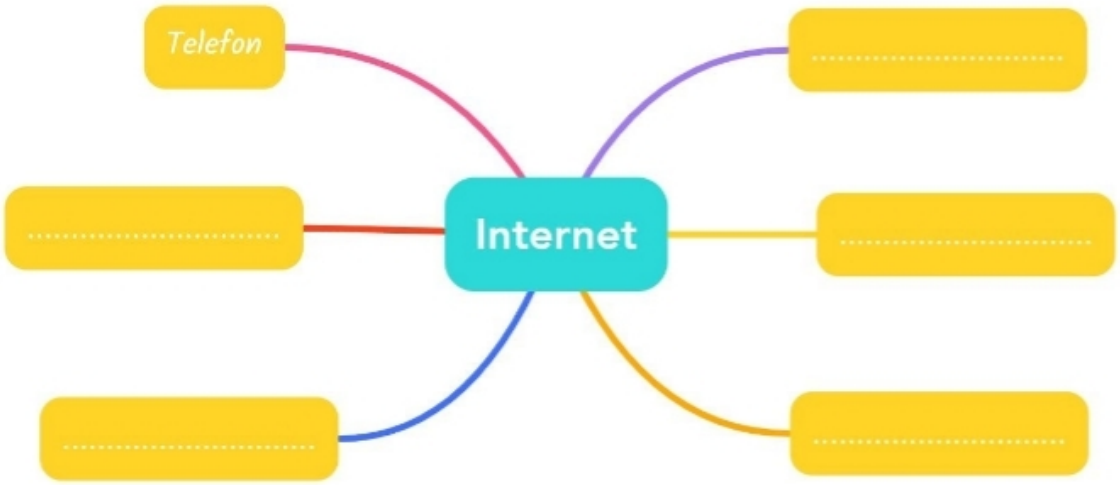
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Tools and things in our life

Make sentences with the following words or phrases: social network, password, link, message.

Complete the mind map with devices from which you can access the Internet



Solve the following problem:

Ionuț, David and Răzvan together scored 200 points in an online game. Ionuț obtained 35 points more than David, and Răzvan obtained 45 more points than David. How many points did each boy get?

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Tools and things in our life

Read the information below carefully.



a. Four-sixths of the world's adult population has Facebook app downloaded.
b. One third of the world's population uses Facebook regularly.
c. A quarter of Facebook users are aged between 18 and 24 years old.
d. Nine tenths of children in Romania use mobile internet.
e. Half of the children in Romania aged between 12 and 17 years old say that they have been emotionally affected or offended in the virtual environment.
f. Six tenths of Romanian children between the ages of 9 and 16 use their smartphone daily or several times a day.
Represent the above information graphically and write the corresponding fraction next to the figure

a.	b.	c.
d.	e.	f.

Scan the QR code and discover the game "Find the pair"

Imagine that you are Răzvan and you are contacted by Ionuț who tells you how he is being harassed by his older colleagues. What advice would you give him?



Scan the QR code and solve the puzzle

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4

Tools and things in our life

The wheel through history



Human civilization has not known until the present moment a more ingenious and more important than the wheel. This brought man to a new level of development and thinking. But you asked yo ever who invented the wheel Who had a such imagination to invent such a object? Well, let's find out together who it is the inventor of the wheel and how important this invention is to mankind.

The wheel is a circular component made to rotate around its own axis. The mechanical assembly of the wheel and axle allows the movement of heavy objects while supporting their weight. The most common examples of the wheel are found on land transport vehicles.

The history of the wheel begins after man had already discovered fire, invented the canoe to cross the waters, even the bow with arrows had already appeared, but still did not find a method to transport goods more easily.

Historians mostly agree that the wheel was invented around 3,500 BC in Mesopotamia, a territory currently occupied by Iraq. The first wheel used for transportation appeared around 3,500 BC, in the Mesopotamian chariots of that time.

Scan the QR codes to learn more about the evolution of the wheel.

Wheel of wood

Spoke

Wheel of iron

Wheel of rubber

The absence of such an object, the wheel, would be inconceivable, and the one who invented it was a real genius in engineering, even if he did not have a college and did not make his invention known, neither to himself nor to his descendants, but we may say that the whole industry and the whole wealth of mankind se support this man's invention.



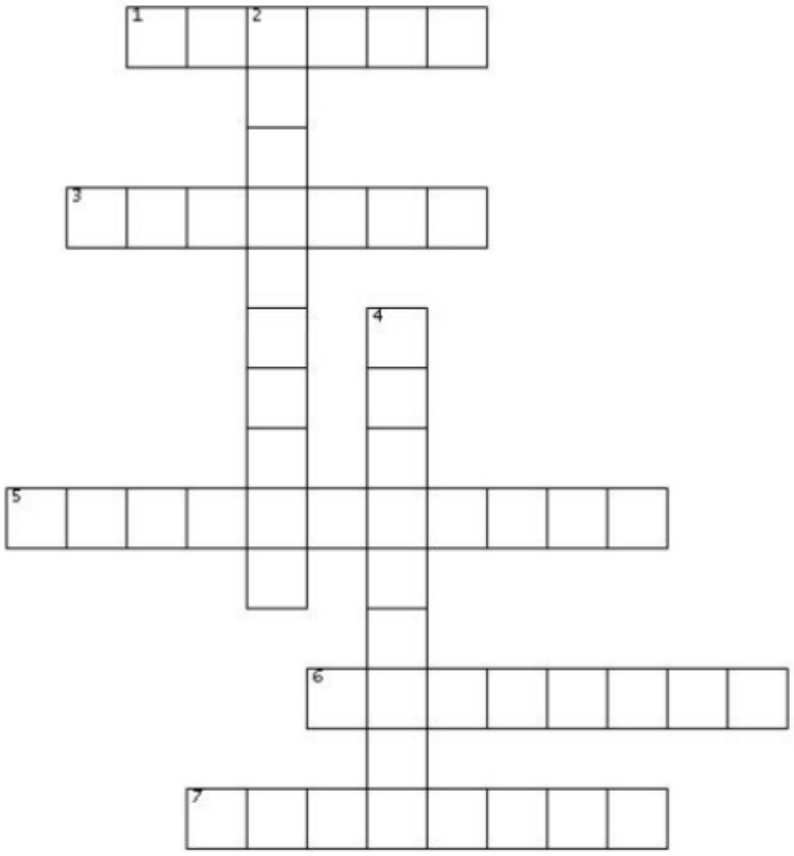
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4

Tools and things in our life

Use the clues to fill in the words

The Computer - Internet safety



ACROSS

1. What do you call a person that was threaten on social media?
3. Who should know everything about your online activity?
5. How do you call the process that can infect your computer with viruses?
6. - What kind of information you shouldn't give to strangers?
7. What is the code that only you and your parents should know?

DOWN

2. What is the name of a person that has an aggressive temper online?
4. With whom you shouldn't talk on the social media?

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4

Tools and things in our life

Fill in the given spaces with the appropriate words:

The wheel revolves around its …….. This is a mechanical assembly consisting of …… and ……. which allow the movement of heavy objects.
The wheel was invented in the year …… in …… , at the beginning being used …….. to move large weights from one place to another.
After another 1500 years the ……..... was invented which led to faster and easier transportation of objects. The first wheels with …… were fitted to the carriages of …… .
Another major invention was the use of …… on wheels, this discovery further developed, a Scottish vet then inventing the ……. …….

Explain the meaning of the highlighted expressions in the statements below:

a. On Mihaela's day I felt like *the fifth wheel in the cart.*

_____

b. When I got to the show I l*ooked around* to see how many people had come.

_____

c. Marius is trying *to put sticks in my wheels*.

_____

d. Everything *goes like clockwork.*

_____

e. Ioana was so happy with her work as if she had *reinvented the wheel.*

_____

Scan the QR code below and solve the puzzle to find out what the wheel was first used for



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Tools and things in our life

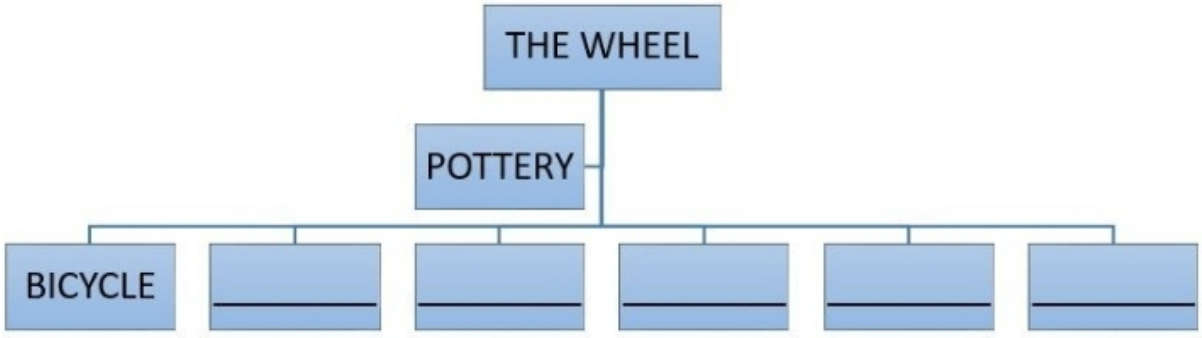
I can do more!

Calculate how many years have passed since the wheel was invented if the first wheel for transportation appeared in 3500 BC.
How many centuries have passed since then? What about millennials?

Round the numbers as indicated in the table:

Number	Rounding to:				
	Tens	Hundreds	Thousands	Tens of thousands	Hundreds of thousands
12 356	12 360				
325 416					
214 853					

Complete the mind map below with uses of the wheel



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Tools and things in our life

Let's play!

Contest game!

Scan the QR code and be the first to find the ten key words of this lesson.
Write the words in the spaces provided.

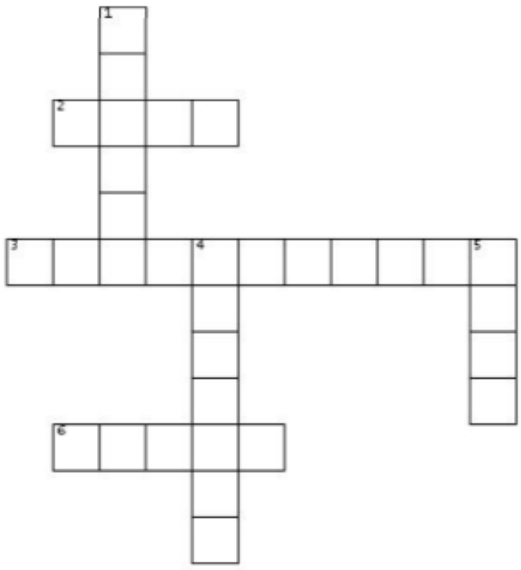
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____

Solve the puzzle below:

ACROSS
2. What kind of round objects were used, before the wheel, to move large stones?
3. Where was the wheel invented?
6. What allowed the wheels to absorb the shocks?

DOWN
1. What had the Egyptians invented that permitted for the wheels to be more lighter?
4. For what purpose was the wheel used at first?
5. What is the name of the part that permitted for the wheels to move independently from each other?

Use the clues to fill in the words above.
Words can go across or down.
Letters are shared when the words intersect.



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Tools and things in our life

Compose a text of 10-12 statements in which you present the importance of the invention of the wheel and the impact it had on the development of mankind



When writing the text you will consider:
– the existence of the component parts: introduction, content, conclusion;
– the logic of chaining ideas;
- formulating an opinion regarding the given topic;
– clear statement, consistent with the opinion formulated;
– referring to personal or cultural experience in the development of any argument/example;
- the use of literary language (vocabulary according to the theme, clarity of pronunciation, spelling, punctuation, placement on the page, readability).



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Great inventors and inventions

Tools and things in our life



Radio was originally a method of transmitting sounds through radio waves, which are electromagnetic waves in nature. Today, a wide range of different signals, including moving images and enormous data streams.

For a very long time man has had to transmit information over long distances. In ancient times, fire signals were the only means of communication over long distances.

Serbian-American physicist Nikola Tesla, along with several other inventors, was instrumental in creating the first machine. He built a system that could transmit and receive radio signals from a distance of nearly 3 km. In 1895 he sent a radio signal for the first time; in 1907 he first received a radio signal from Canada, namely the "x" sign in Morse Code. Along with this began the development of wireless telegraphy and the use of Morse code, which were very important especially for communication between ships in case of disasters at sea. Nikola Tesla started the construction of the first radio broadcasting station in 1900, but due to lack of funds he abandoned the idea. However, he is considered the inventor of the idea of broadcast radio stations.



The Wright brothers, Orville and Wilbur, were two American aviators, engineers, inventors, and aviation pioneers, credited with inventing, building, and successfully piloting the world's first airplane. They have made the first controlled, sustained, self-propelled flight of a heavier-than-air machine on December 17, 1903, four miles south of Kitty Hawk, North Carolina. In 1904–1905, the two brothers developed, from their first flying machine, the first practical fixed-wing airplane. Although they were not the first to build experimental aircraft, the Wright brothers were the ones who invented the flight control mechanisms that made the first **self-propelled flight** possible.



Papermaking is one of the inventions of the Chinese. The year 105 AD it is often cited as the year papermaking was invented. In that year, historical records show that the invention of paper was reported to the Eastern Han Emperor Ho-di by Ts'ai Lun, an official of the Chinese Imperial Court.

Ts'ai Lun tore the bark of a mulberry tree into fibers and beat them into a sheet. Later it was discovered that the paper could be greatly improved in quality by adding hemp and old fishing nets to its mixture.

Paper was widely used in China and spread to the rest of the world via the Silk Road.



For thousands of years, humans have tried numerous ways to preserve food in order to survive.

People have seasoned, salted, pickled, dried, sealed their food, but none of these methods can be seen as effective as the modern **refrigerator.**

In 1805, a man named Oliver Evans created a design for a cooling machine that would be powered by steam. Although Evans designed the car, he never built his idea. In 1835, an inventor named Jacob Perkins made some changes to Evans' original idea and created an "Apparatus and means for producing ice and in liquids of refrigeration". Refrigerators are an essential invention in the modern world. Dairy products, meat, produce and many other perishable items are now allowed to be kept for a longer period of time.

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Tools and things in our life



Galileo Galilei was one of the most famous scientists of the Renaissance. Astronomer, physicist, engineer, philosopher and mathematician, Galileo played a key role in the Scientific Revolution.
In July 1609, Galileo learned of the invention of the telescope, and he soon made one himself. It was a key moment for Galileo, who thus began to turn his attention to the heavens. He discovered that the Moon was neither flat nor smooth, but a sphere with mountains and craters. He discovered that Venus has several phases, just like the Moon, thus proving that the planet revolves around the Sun. He also discovered that Jupiter has its own moons that revolve around it, not the Earth - further proof that the theory that the Earth is flat is incorrect. Galileo thus began to gather more and more evidence in support of the theory that **the earth is round**, thus contradicting the official doctrine of the Church - this despite the fact that he was a man of faith.
But he believes that this theory does not contradict the Bible, arguing that scripture was written from an earthly perspective and that science simply offers a different, more accurate perspective.



In 1903, Henry Ford opened a business in Detroit and all he wanted to do was make and sell cars. And for 19 years it sold only one kind of car: the well-known Model T. But in an impressive number: 15,500,000, half of the world's production. His revolutionary assembly line allowed him to sell cars at a price that a middle-income American family could afford. The famous car manufacturer has achieved the feat of doubling workers' wages while reducing working hours. What until then was only a toy for the whims of the rich became, thanks to Henry Ford, a necessity of everyday life, making the world happy with highways, gas stations and traffic jams. Through different optimizations, especially on the assembly line, by achieving standards for cars, Ford was able to get ahead of other competitors with a **cheap car.**



Johannes Gutenberg was a German blacksmith and inventor who developed the world's first mechanical-movable printing press.
Considered very important in modern human history, the printing press played a key role in the advancement of mankind. Making the knowledge contained in books and literature accessible and readily available for the first time, Gutenberg's press was used to create one of the first and most famous books in the Western world, the Gutenberg Bible, also known as the "42 Line Bible ".

Identify the underlined words in the text and write for each one a word with a similar meaning:

received = _____
experimental = _____
often = _____
numerous = _____
made = _____
whims = _____
advancement = _____

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Tools and things in our life

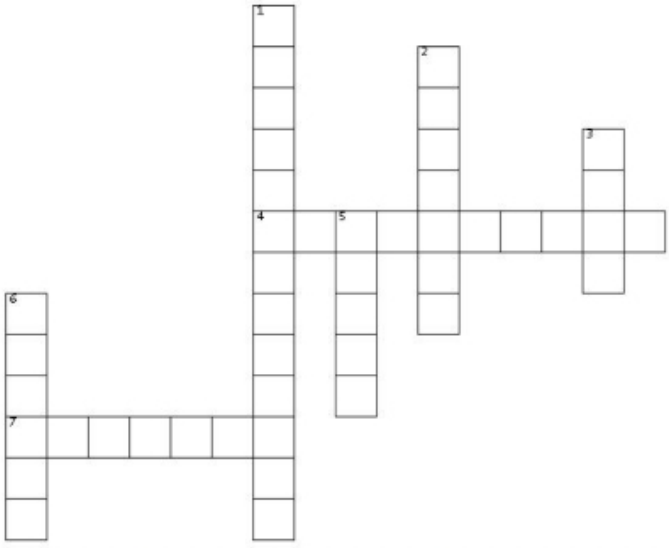
The little explorer

Complete the crossword with the appropriate information:

ACROSS
4. Who invented the printing press?
7. Who was the first man that realized that the Earth is round?

DOWN
1. Which invention allowed people to keep food for a longer time?
2. Which people invented the paper?
3. What is the name of the man that made cars affordable of everyone?
5. Who invented the radio?
6. Which brothers invented the aeroplanes?

Use the clues to fill in the words above.
Words can go across or down.
Letters are shared when the words intersect.



Match invented objects or discoveries with matching inventors.

The earth is round	Paper	Radio	Self-propelled plane	Cheap cars	The printing press

Nikola Tesla	Henry Ford	Galileo Galilei	Johannes Gutenberg	Wright Brothers	Chinese

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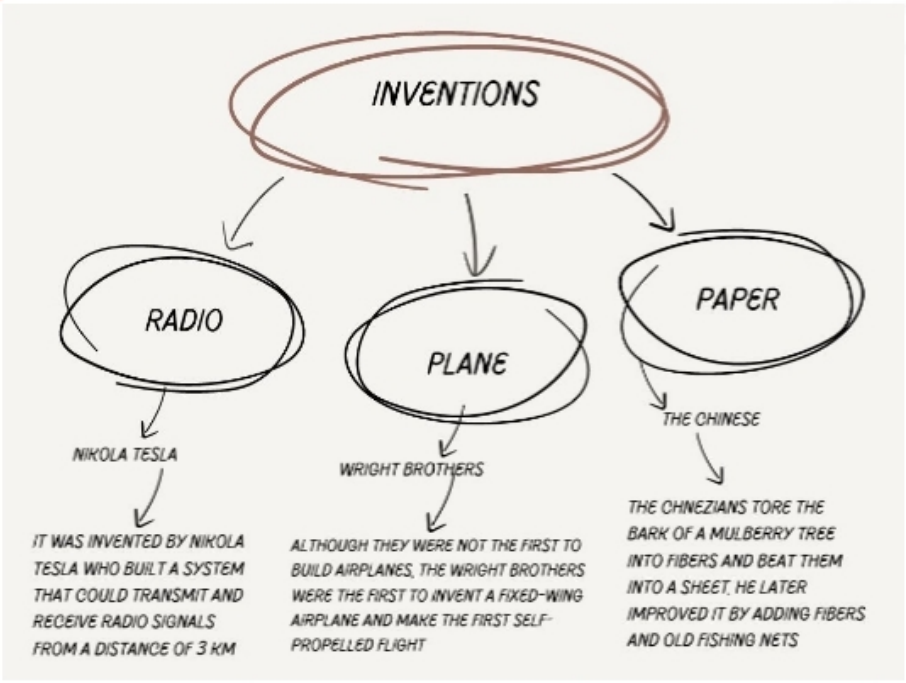
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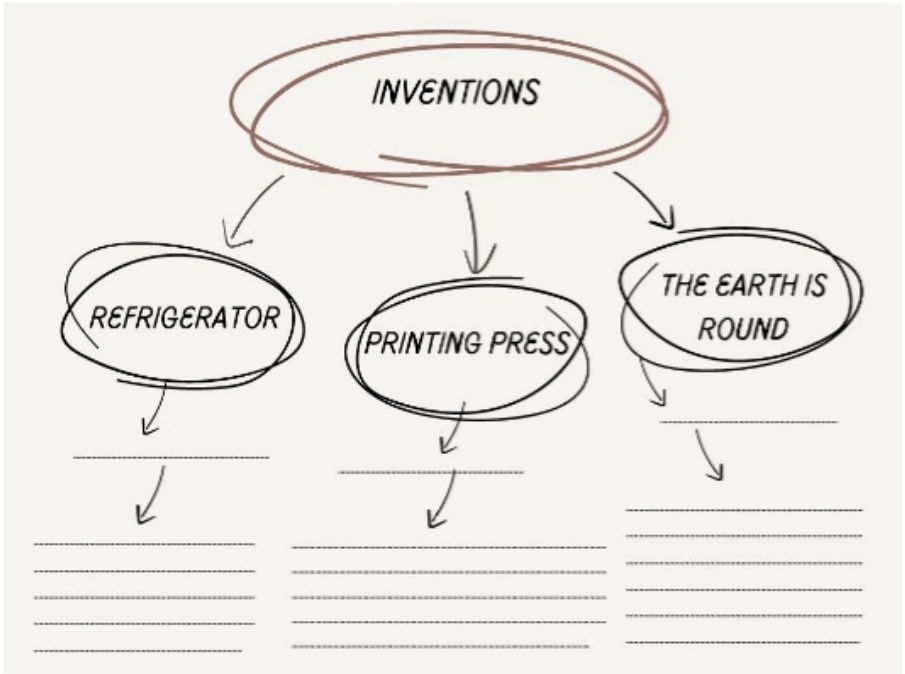
Tools and things in our life

The little explorer



Complete the mind map according to the given model:





Scan the QR code and solve the following puzzle to discover how the man who 'brought the world out of darkness' looked like

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4

I'm smart!

Tools and things in our life

The clock, the instrument that measures and shows us time, is today found everywhere, and we probably wouldn't know how to live or how to guide ourselves in its absence. Whether we are talking about a wall clock, clocks or a wristwatch, they all have a long history behind them, dating back to before our era.

Until it reaches its final form (as we know it today), the watch has gone through many stages of evolution and through the hands more many cultures, peoples and scientists or personalities.

Write the numbers in Arabic numerals to discover the years when the clock was invented and its evolution:



- The mechanical watch – CMXCVI - _____
- The spring clock – MD - _____
- The pendulum clock – MDCLVII - _____
- The alarm clock – MDCCLXXXVII - _____
- The wristwatch – MCM - _____

In 1879 Thomas Edison invented the light bulb. Choose the correct spelling of this number:

a. Onethousand eight hundred and seventy-nine
b. One thousand eighthundred and seventy nine
c. One thousand eight hundred and seventy-nine
d. One thousand eight hundred and seventynine



In 1827, the Romanian Petrache Poenaru invented the pen. Choose the option in which the decomposition of this number is correct

a. 1000 + 800 + 27
b. 1000 + 800 + 20 + 7
c. 1800 + 20 + 7
d. 1000 + 800 + 20 + 0



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Tools and things in our life

I'm smart!

Scan the QR code and enter the game! Answer correctly and collect the most points! Success!

In 1973 Martin Cooper invented the first mobile phone weighing 1.3 kg. Choose the correct option for rounding this number to tens:

a. 1980
b. 1900
c. 2000
d. 1970



Imagine that you are an inventor. Make up a text of 10 – 12 sentences in which you present your invention.

When writing the text you will consider:
– the existence of the component parts: introduction, content, conclusion;
– the logic of chaining ideas;
- formulating an opinion regarding the given topic;
– clear statement, consistent with the opinion formulated;
– referring to personal or cultural experience in the development of any argument/example;
- the use of literary language (vocabulary according to the theme, clarity of pronunciation, spelling, punctuation, placement on the page, readability).

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Tools and things in our life

Measuring tools

Discover the given measuring tools in the crossword below and circle them

CLOCK
LITERS
MINUTES
SCALE
CUPS
METERS
POUNDS
KILOGRAMS
MILES
RULER



D	M	E	T	E	R	S	K	M	H
S	P	U	C	L	L	E	I	I	G
L	Z	I	I	A	G	L	L	N	H
X	I	M	O	C	E	R	O	U	J
K	H	T	H	S	P	A	G	T	L
C	C	B	E	O	L	Q	R	E	K
N	C	O	U	R	A	Q	A	S	W
H	W	N	L	B	S	M	M	I	U
R	D	J	Z	C	N	F	S	W	P
S	G	R	E	L	U	R	X	J	D

Find out the name of the person who invented the calendar by ordering the natural numbers in the table in descending order

U	I	C	I	E	S	A	L	R	Z	U
215 654	46 850	21 764	231 463	17 321	32 521	7 640	154 632	3 232	14 760	42 650

He invented the calendar in 46 BC.



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Tools and things in our life

Scan the QR code, discover the six hidden measuring tools and write them down.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Make sentences using the words discovered above.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

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4

Tools and things in our life

I'm smart!

- Every year on October 4, World Animal Day is celebrated

October 2022

No.	Sun	Mon	Tue	Wed	Thu	Fri	Sat
39							1
40	2	3	4	5	6	7	8
41	9	10	11	12	13	14	15
42	16	17	18	19	20	21	22
43	23	24	25	26	27	28	29
44	30	31					

What day of the week will the event take place?

_____

Circle the letter corresponding to the day of the week on which the event will take place

a. Monday
b. Tuesday
c. Thursday
d. Friday



- After breakfast, Bruno the bear sleeps for 5 hours and 20 minutes. How many minutes does his sleep last? But seconds?



Answer:

____ minutes

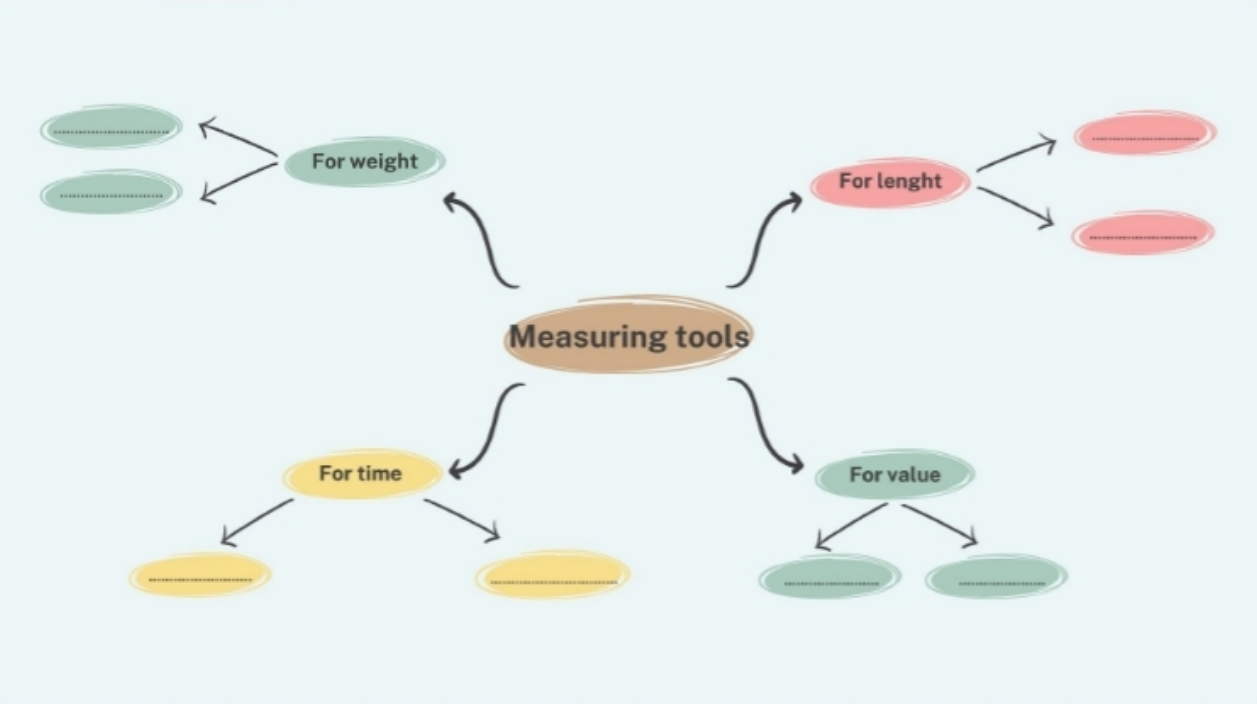
____ seconds

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Tools and things in our life

Complete the mind map



Scan the QR code, solve the puzzle and discover even more measuring tools

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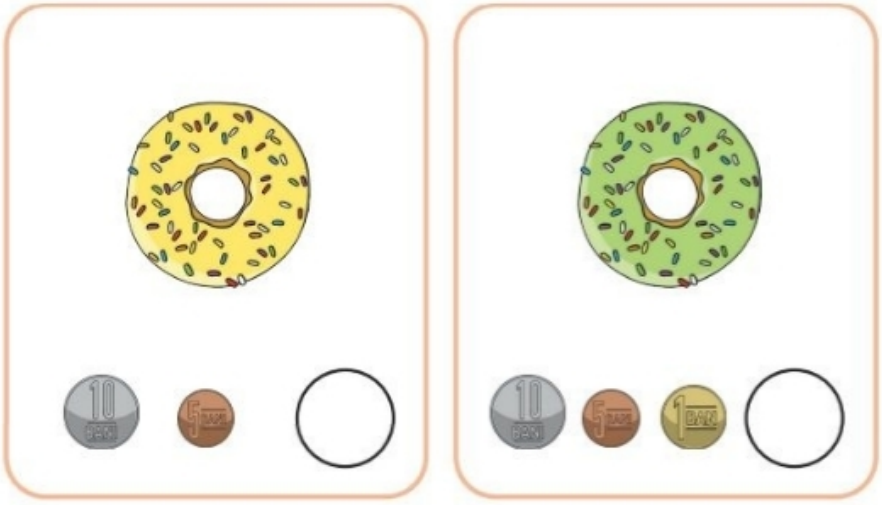
4

Tools and things in our life

Using a roulette, Mihai measured the length of a field. This was 26 m. He then noticed that the width was half the length. He would like to know now how much it is the perimeter. Can you help him?



How much are the donuts?



Count the coins and write the total.



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4

Tools and things in our life

Musical instruments



What was the world's first musical instrument? In reality, no history or anthropologist knows which was the first musical instrument of the world.

However, archaeologists have found a flute from the Neanderthal period which is more than 50,000 years. It was carved from the bone of a bear of the cave and found in Slovenia in 1995.

Another great find was the trumpet, or rather a pair of trumpets. These are some of the oldest musical instruments discovered so far. They were found in the tomb of Tutankhamun. In fact, they are the only surviving trumpets from Ancient Egypt and are over 3,000 years old. They were discovered in 1922 by archaeologist Howard Carter during an excavation at the famous tomb. Both trumpets are engraved with decorative images of gods Ra, Ptah and Amun, among the most important figures from the Egyptian pantheon. Moreover, on many vessels Egyptians from the old dynasty appear vertical flutes, double clarinets, graceful harps and various forms of drum



Scientists agree that there are no methods completely credible to determine the exact chronology of the appearance of musical instruments in different cultures. Comparing and organizing instruments according to their complexity can be misleading, as advances in musical instruments have paradoxically reduced the complexity of the phenomenon. For example, the construction of slotted drums involved cutting and hollowing out large, vigorous trees.

Is the text above literary or non-literary? Justify your answer.

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Tools and things in our life

In what year were the trumpets discovered in Egypt?
Round that number to tens, hundreds, and thousands



Complete the crossword below with the correct names of the musical instruments in the pictures



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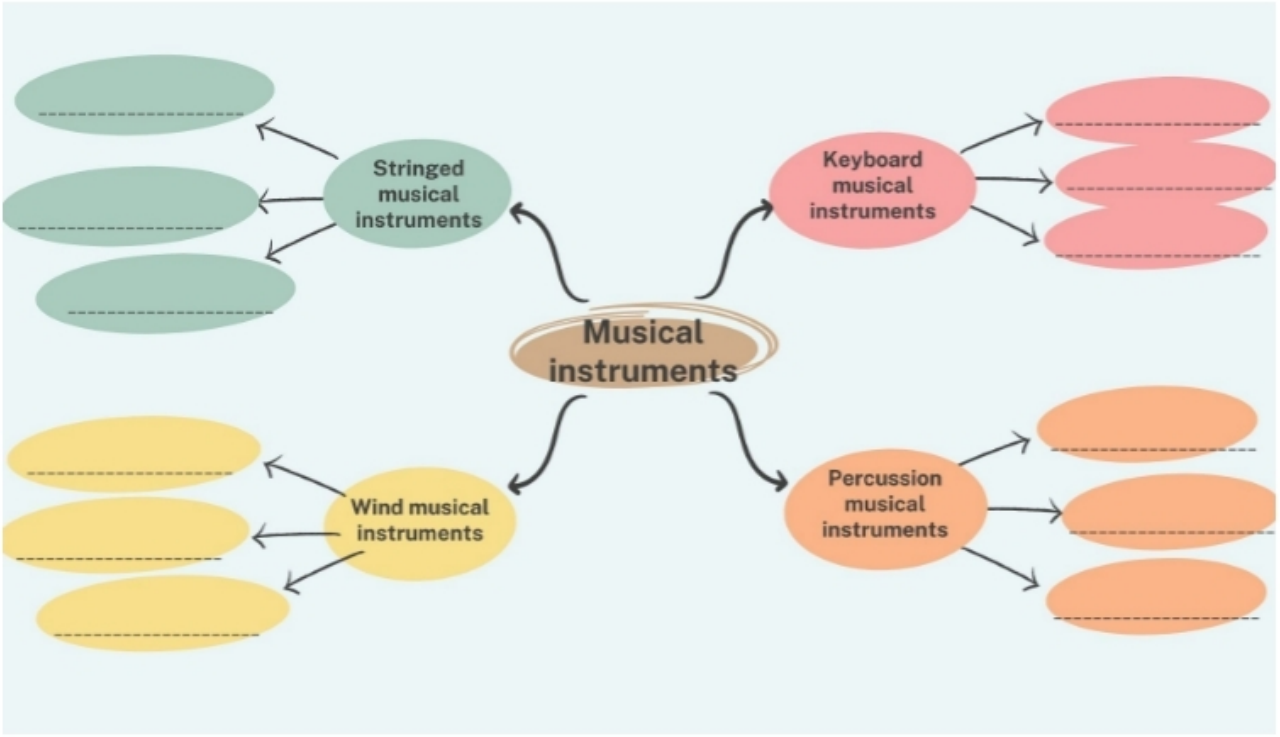
4

Tools and things in our life

Scan the QR code, discover the musical instruments and write them down

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

Complete the mind map, appropriately grouping the musical instruments discovered above



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4

Tools and things in our life

Scan the QR code and solve the puzzle. Write down the number of musical instruments found in the picture below.

1. Saxophone - _____
2. Harp - _____
3. Tambourine - _____
4. Maracas - _____

Discover the name of the greatest Romanian composer, ordering the natural numbers in the table in ascending order

O	C	E	G	E	R	U	E	S	G	N	E
17 245	299 870	99 541	43 524	46 873	22 436	675 431	6 805	287 241	1 022	76 901	65 265

1881 - 1955
Composer
Violinist
Educator
Pianist
Conductor



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4

Tools and things in our life

School supplies

CONTEST GAME!

Complete the mind map with 10 school supplies. You have two minutes.
Then compare your list of supplies with those of your classmates. For each word that is also found in other colleagues you get 5 points, and for the words you wrote only you, you will get 10 points. The highest score wins! Success!



SCORE: _____



Scan the QR code and solve the puzzle

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