



Space

Lesson 2





Warm up



Describe the picture

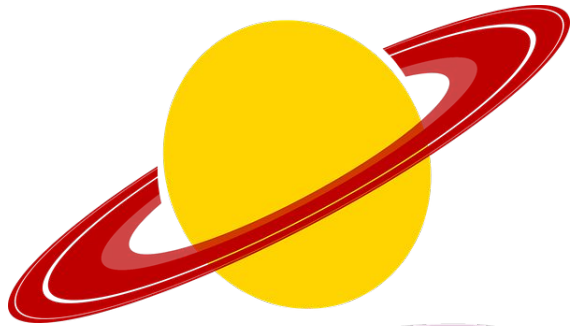


- What can you see in the picture?
- Where do you think it is?
- What do you think the temperature is?
- Would you like to visit there?
- Is it a scary place or an exciting place?





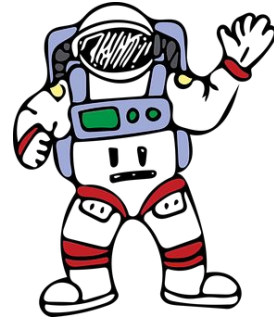
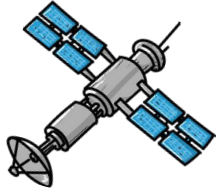
Recap: Moon Landing



Johnny



Johnny



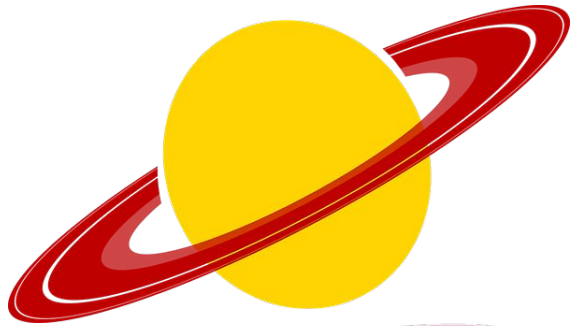
Johnny loved the information you gave him in the last class about Venus, Mercury and Earth.

Now, he wants to know about the moon landing.
Can you give him some interesting facts?





Recap: Planets

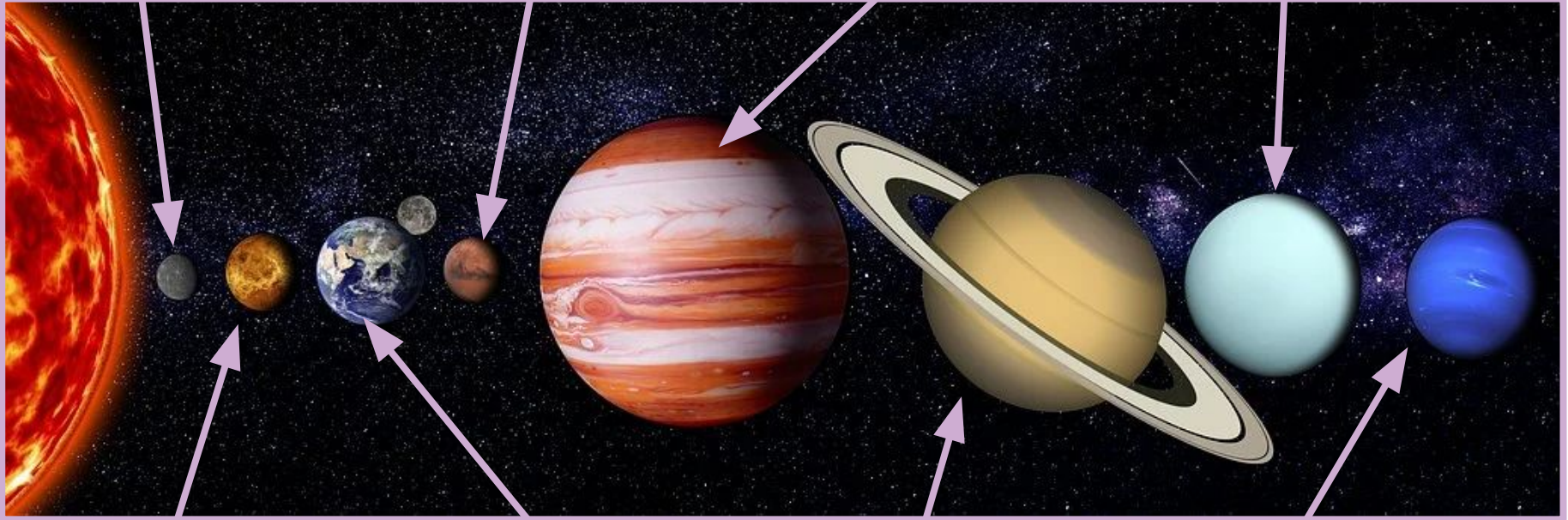


1. _____

4. _____

5. _____

7. _____



2. _____

3. _____

6. _____

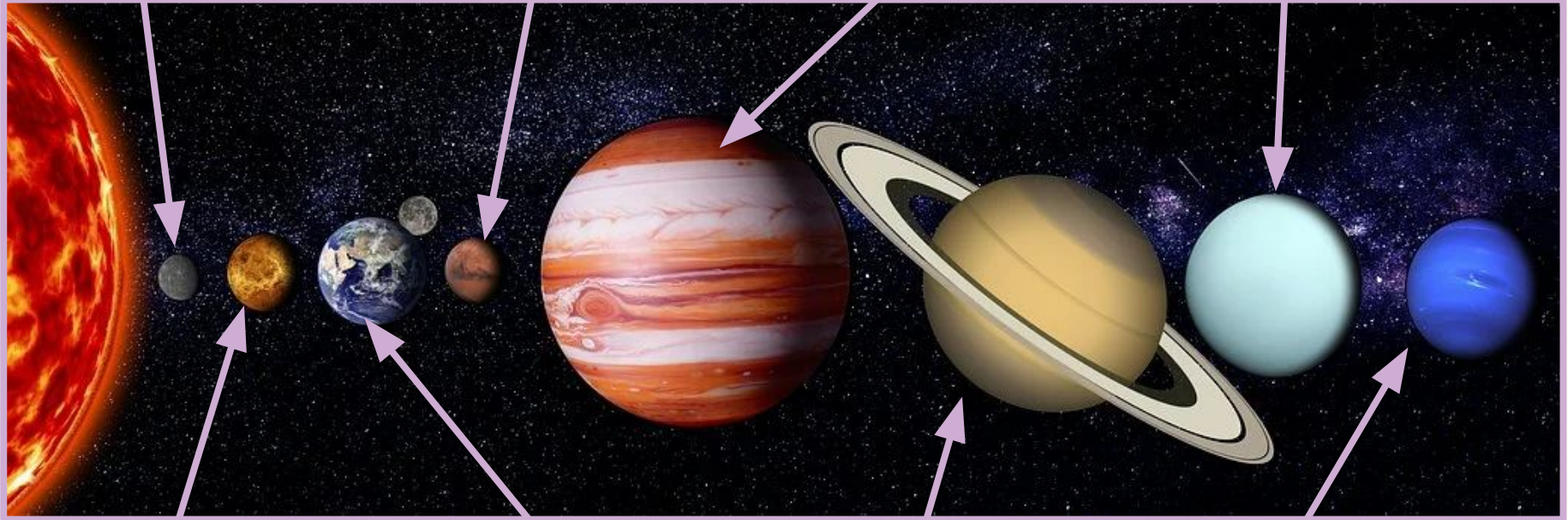
8. _____

1. Mercury

4. Mars

5. Jupiter

7. Uranus



2. Venus

3. Earth

6. Saturn

8. Neptune

Planet: Questions



Answer in full sentences!

1. Which planet has rings?
2. Which planet is the only one with life?
3. Which planet is the smallest?
4. Which planet is the closest to the sun?
5. Can you name all 8 planets?



Planet: Questions



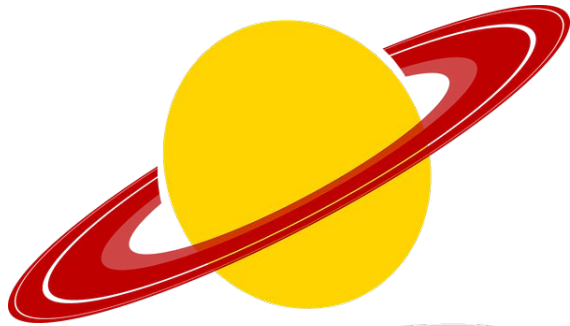
Answer in full sentences!

1. Which planet has rings? **Saturn**
2. Which planet is the only one with life? **Earth**
3. Which planet is the smallest? **Mercury**
4. Which planet is the closest to the sun? **Mercury**
5. Can you name all 8 planets?





Space: Planet Profiles



Space: Planets

Match the
names to the
pictures.

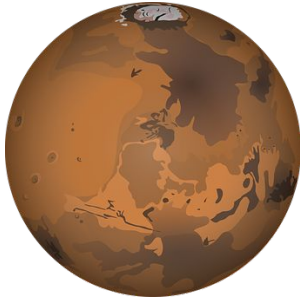


Saturn

Jupiter

Mars

1



2



3



Check your answers!

Great job!



1



1. Mars

2



2. Jupiter

3



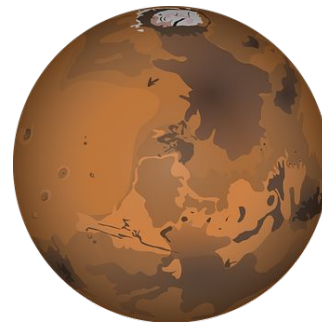
3. Saturn

Planet Profile: Mars

Mars is the 4th planet from the Sun and the 2nd smallest planet. Mars is known as the “Red Planet.”

Mars is considered Earth’s brother. It has seasons, polar ice caps, volcanoes, canyons, and weather systems. Oceans and lakes existed on Mars long ago. Some believe that water exists underneath Mars’s surface.

A day on Mars is a little longer than on Earth (24.6 hours). A year on Mars, or the time it takes to circle the Sun, lasts about 687 Earth days, or almost twice as long as a year on Earth.

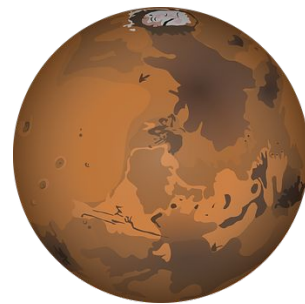
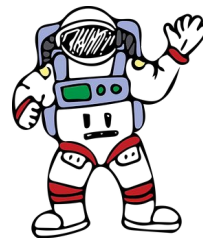


Key Facts

Moons	2 moons
Temperature	-87° C to -5° C
Diameter	6720 km
Distance from Sun	228 million km
Day Length	24.6 hours



Mars: True or False?



Mars is the 3rd planet from the Sun and the smallest planet;
it is known as the "Green Planet."



or



Mars has 5 moons.



or



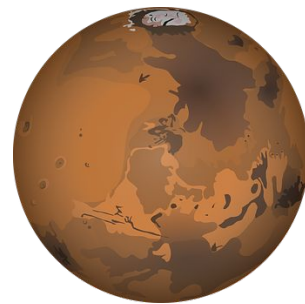
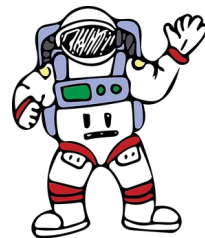
A day on Mars is a little longer than on Earth - 24.6 hours.



or



Mars: Check your answers



Mars is the 3rd planet from the Sun and the smallest planet;
it is known as the "Green Planet."



Mars has 5 moons.



A day on Mars is a little longer than on Earth - 24.6 hours.



Planet Profile: Jupiter



Jupiter is the 5th planet from the Sun and the largest planet. It is twice the size of all the other planets combined. It is 318 times bigger than Earth!

It is the planet with the second-most moons (79). The closest planets to Jupiter are Mars and Saturn. The planet can be seen with the naked eye, so you don't need a telescope to see it.

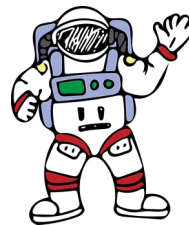
A day on Jupiter goes by very fast. It only lasts for about 10 hours. However, one year on Jupiter is equal to 11.8 Earth years.

Key Facts

Moons	79
Temperature	-102° C
Diameter	142,984 km
Distance from Sun	778 million km
Day Length	9.8 hours



Jupiter: True or False?



A day on Jupiter goes by very slow. It lasts for 50 hours.



or



Jupiter is the 5th planet from the Sun and is the largest planet in the solar system.



or



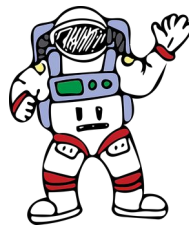
Jupiter has the second-most moons, 79.



or



Jupiter: Check your answers



A day on Jupiter goes by very slow. It lasts for 50 hours.



Jupiter is the 5th planet from the Sun and is the largest planet in the solar system.



Jupiter has the second-most moons, 79.



Planet Profile: Saturn



Saturn is the sixth planet from the Sun and the second-largest planet after Jupiter. Saturn has the most moons of all the planets.

Saturn is nicknamed the "Ringed Planet" because it has more than 30 ring systems around it. The rings of Saturn are made out of chunks of ice and rock that are very bright.

A day on Saturn goes by very fast. It takes only 10.7 hours for Saturn to spin once a day. A year is 29 Earth years.

Key Facts

Moons	82
Temperature	-139 °C
Diameter	120,500 km
Distance from Sun	1434 million km
Day Length	10.7 hours



Saturn: True or False?



Saturn has more moons than any other planet.



or



A year on Saturn is very slow—220 Earth years.



or



Saturn is nicknamed the “Ringed Planet” – it has more than 30 ring systems around it.



or



Saturn: True or False?



Saturn has more moons than any other planet.



A year on Saturn is very slow—220 Earth years.



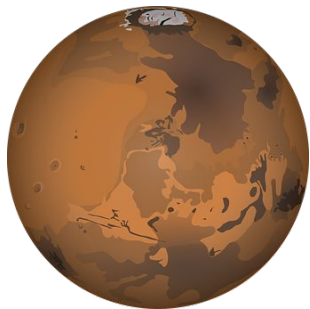
Saturn is nicknamed the “Ringed Planet” – it has more than 30 ring systems around it.



Mars, Jupiter & Saturn



Answer in full sentences!



1. Which planet is the hottest?
2. Which planet is the coldest?
3. Which planet has the most moons?
4. Which planet has the longest day?
5. Which planet is closest to the sun?



Check your answers



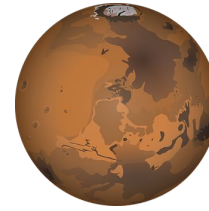
How many did
you get right?



1. Which planet is the hottest? **Mars**
2. Which planet is the coldest? **Saturn**
3. Which planet has the most moons? **Saturn**
4. Which planet has the longest day? **Mars**
5. Which planet is closest to the sun? **Mars**



Meet Laura



Laura!

You meet Laura for the first time. She is interested in space. Tell her some interesting facts about the following planets:

- Mars
- Jupiter
- Saturn





Space: Vocabulary



Space: Vocabulary

Match the
words to the
pictures...



Elon Musk

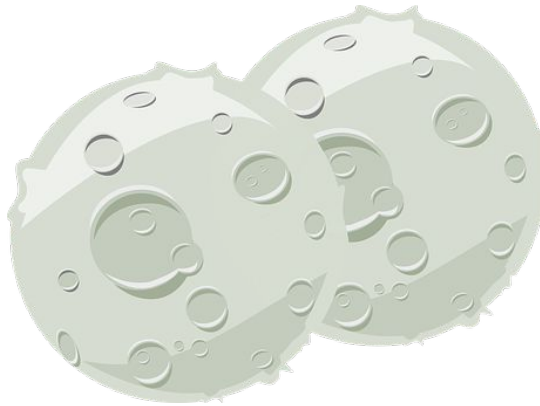
telescope

crater

1



2



3



Check your answers!

Great job!

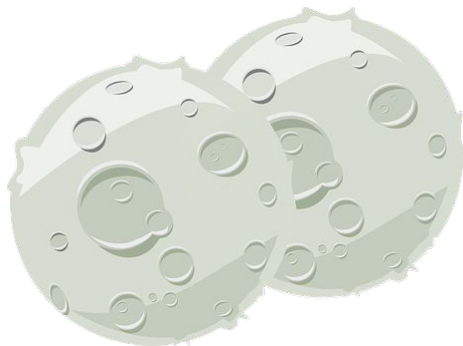


1



1. telescope

2



2. crater

3



3. Elon Musk



Space: Vocabulary

Match the
words to the
pictures...



drill

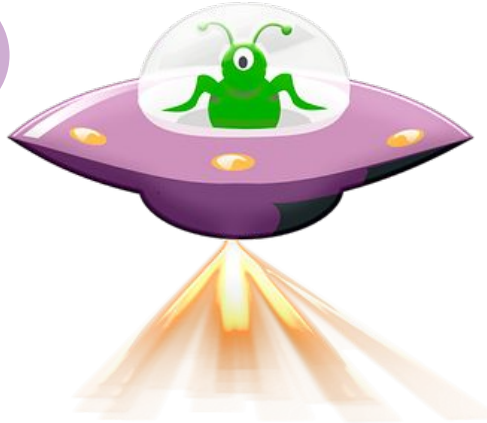
asteroid

UFO

4



5



6



Check your answers!

Great job!

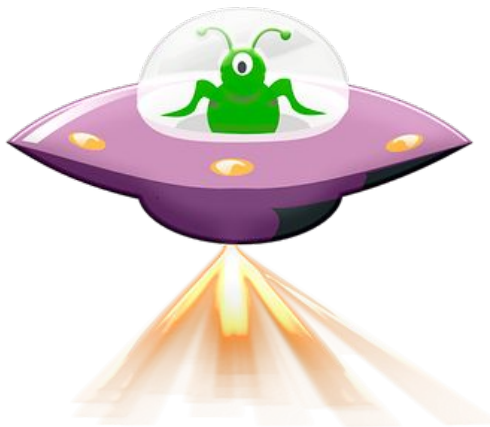


4



4. drill

5



5. UFO

6



6. asteroid





Space: Dialogues

Task:

Read and complete the dialogues, then act them out with a partner.



Elon Musk

craters

telescope



Sarah: Did you read about the latest mission to Mars?

Laura: Yes, I saw that _____'s company, "SpaceX," sent a spaceship to Mars.

Sarah: It is incredible! I love learning about the planets.

Laura: Me too! I have a _____ so I like to look at them at night.

Sarah: I also have a telescope to study things in space!

Laura: Yes, I can see the moon clearly. I can even see the moon's _____.

Sarah: Amazing! What do you think Elon Musk's company will find on Mars?

Laura: I think they will find new life!



Check your answers



Sarah: Did you read about the latest mission to Mars?

Laura: Yes, I saw that **Elon Musk's** company, "SpaceX," sent a spaceship to Mars.

Sarah: It is incredible! I love learning about the planets.

Laura: Me too! I have a **telescope** so I like to look at them at night.

Sarah: I also have a telescope to study things in space!

Laura: Yes, I can see the moon clearly. I can even see the moon's **craters**.

Sarah: Amazing! What do you think Elon Musk's company will find on Mars?

Laura: I think they will find new life!



drill

asteroid

UFO



Tom: I saw a strange light in the sky last night!

John: Wow, it could have been a _____.

Tom: What is a UFO?

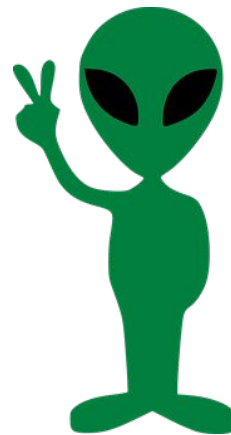
John: An unidentified flying object is something that cannot be explained.

Tom: No, it was a rocky object.

John: Ok, maybe it was an _____?

Tom: Yes, luckily it didn't hit the Earth because they can cause damage!

John: True! Although, experts want to _____ asteroids for resources.



Check your answers



Tom: I saw a strange light in the sky last night!

John: Wow, it could have been a **UFO**?

Tom: What is a UFO?

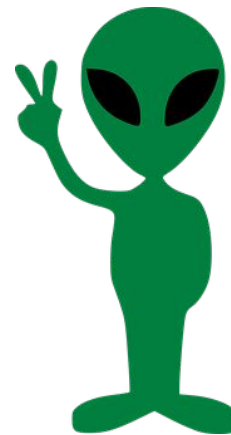
John: An unidentified flying object is something that cannot be explained.

Tom: No, it was a rocky object.

John: Ok, maybe it was an **asteroid**?

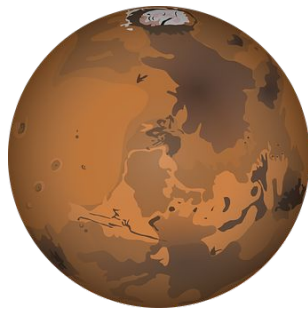
Tom: Yes, luckily it didn't hit the Earth because they can cause damage!

John: True! Although, experts want to **drill** asteroids for resources.





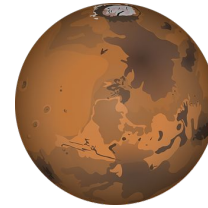
Mission to Mars



Mission to Mars

There have been 68 missions to Mars. Mars is very far away from Earth so over half of the missions have failed. In the last thirty years, we have learned from spaceships and high-powered telescopes that Mars is rocky, dry, and cold. We have found that the planet has deep craters, volcanoes, and there is evidence that there used to be water. The first successful mission to Mars was in 1964. The spaceship took the first-ever images of Mars.

Read the text!



Questions



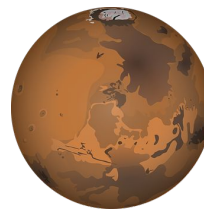
Answer in full sentences

True or False?

1. There have been 90 missions to Mars.
2. Mars is dry, rocky, and cold.
3. The first successful mission to Mars was in 1964.

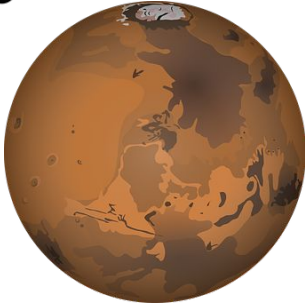
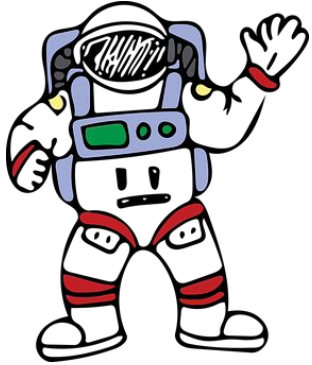
Discussion:

- Do you have a telescope? Would you like one?



Mission to Mars

Read the text!

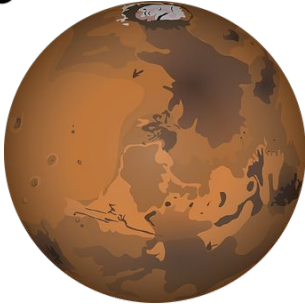
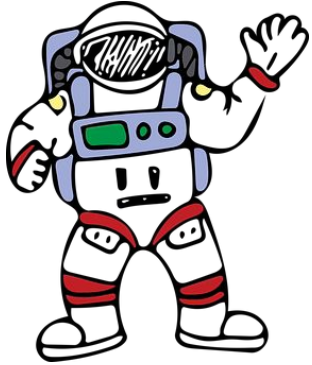


In the 1990s, NASA's "Mars Global Surveyor" spent almost ten years mapping Mars. Mars Pathfinder was the first successful spaceship to land on Mars. It stayed on Mars for 3 months and was the first spaceship to drill and get a sample of the planet. Two more missions to Mars landed in 2004: Spirit and Opportunity. Spirit stayed on Mars for seven years, and Opportunity stayed for 14 years. Both spaceships were important in getting information about Mars's surface, climate, and weather.



Questions

Answer in full sentences!



True or False:

1. The Pathfinder spaceship did not land on Mars.
2. Spirit and Opportunity landed in 2004.
3. Spirit and Opportunity stayed on Mars for 6 months.

Discussion:

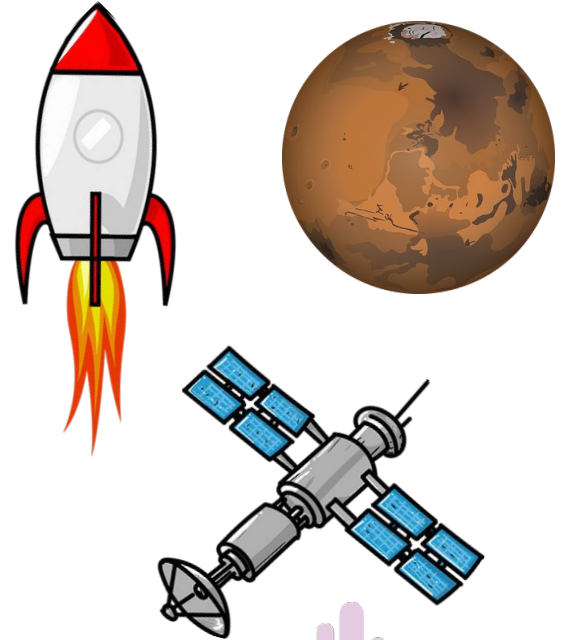
- What do you know what about the weather on Mars?



Mission to Mars

As technology improves each year, living on Mars becomes more probable. People want to live on Mars for many reasons. Firstly, they are worried about future life on Earth because of climate change. Secondly, some experts believe that there are useful resources on Mars. Thirdly, scientists are interested in making new scientific discoveries. Elon Musk's company, SpaceX, wants to make living on Mars possible within the next 50 to 100 years.

Read the text!



Questions

Answer in full sentences!

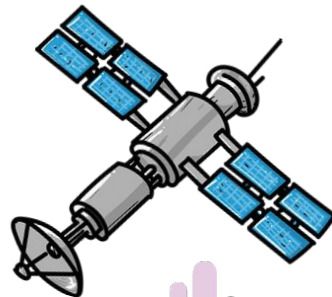
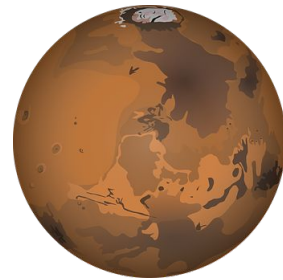
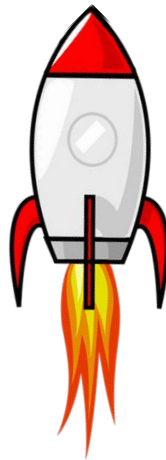


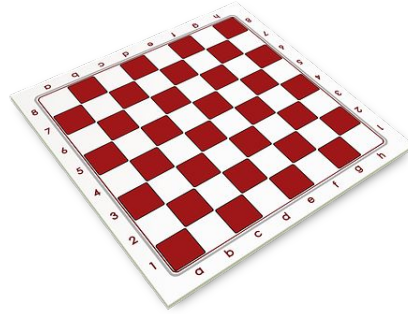
True or False:

1. Nobody wants to live on Mars.
2. People are worried about climate change.
3. Elon Musk's company is called NASA.

Discussion:

- Would you like to live on Mars?

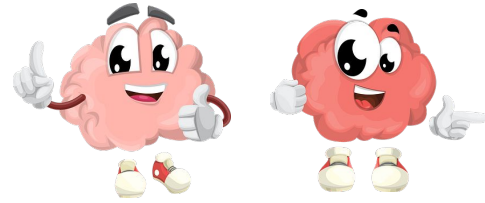




Board Game



Teacher's notes



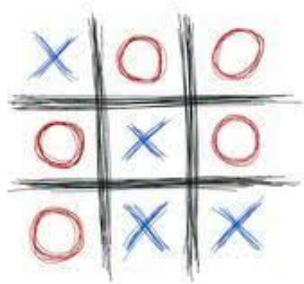
- For this game, you need dice. If you don't have any - follow the link provided for an online dice roller: [Dice Roller](#).
- The first player to reach the last tile wins.
- Move forward with the roll of the dice. Each time someone falls on a number - they must answer the corresponding question.
- Make sure that your students speak as much as possible and use full sentences!
Enjoy!





1 Which planet is closest to the sun?	2 Earth is the ____ planet from the sun	3 Which planet is furthest away?	4 Ask your teacher a question!	5 Which is the biggest planet?
6 How many moons does Jupiter have?	7 Ask your teacher a question!	8 Would you like to visit Mars?	9 Why do people want to move to Mars?	10 Have people walked on the moon?
11 When did Neil Armstrong go to the moon?	12 Would you like to live on Mars?	13 Ask your teacher a question!	14 Which two planets are next to Earth?	15 Do you believe in aliens?
16 Ask your teacher a question!	17 Do you think humans will live on Mars in 25 years?	18 How many moons does Saturn have?	19 Do you think people will go on holiday to Mars?	20 Tell me an interesting fact about Jupiter.





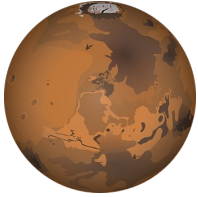
Let's play noughts and crosses



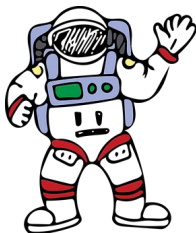
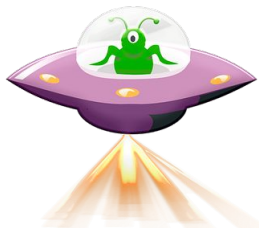
Let's play noughts and crosses!



Say the
vocabulary from
today's lesson
to play!



Let's play noughts and crosses!





Goodbye!
See you
next time!

