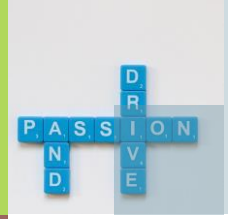
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# The planets

## Preliminary 2

## Unit 14

## Page 102 Reading











# Look at the picture. Ask and answer these questions.

1.Would you like to study space ? Why? Why not?

2.Which star is in the center of the solar system?

3.Do you think it will be possible to live on the other planets in the future?

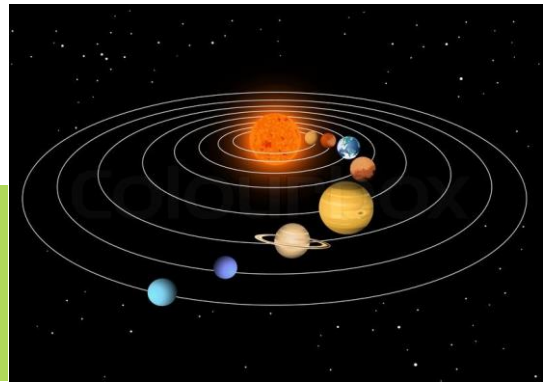
4.Which planet is the biggest in the solar system?



You are going to watch a video about planets. Watch the video carefully and write the names of the eight planets.




Video 1



# Repeat

ˈmɜrkjəri

ˈvinəs

ɜrθ

marz

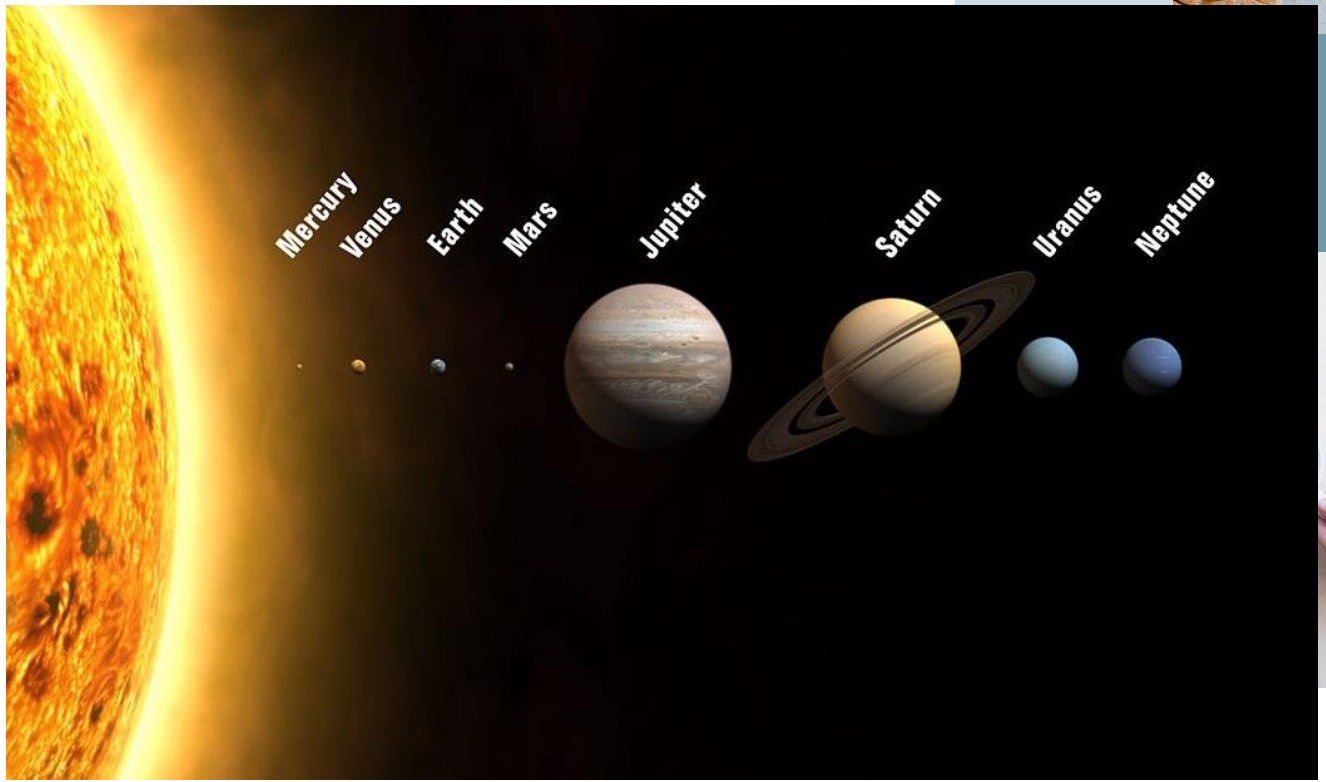
ˈʤupətər

ˈsætərn

ˈjurənəs

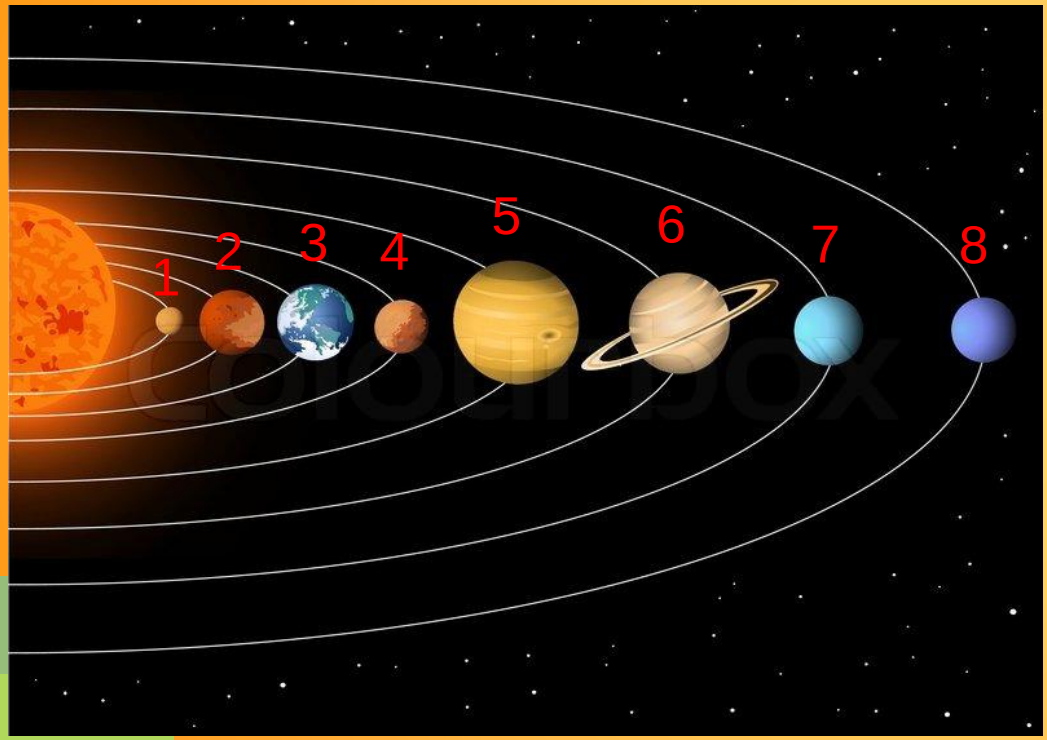
ˈnɛptun

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# Match the names of the eight planets with the numbers.




A. Mars
B. Saturn
C. Mercury
D. Jupiter
E. Earth
F. Neptune
G. Uranus
H. Venus

ˈmɜrkjəri
ˈvinəs
ɜrθ
mɑrz
ˈʤupətər
ˈsætərn
ˈjurənəs
ˈnɛptun

# The solar system

There are eight planets and lots of stars in the space. We call them the solar system.

- There are eight planets in the solar system .

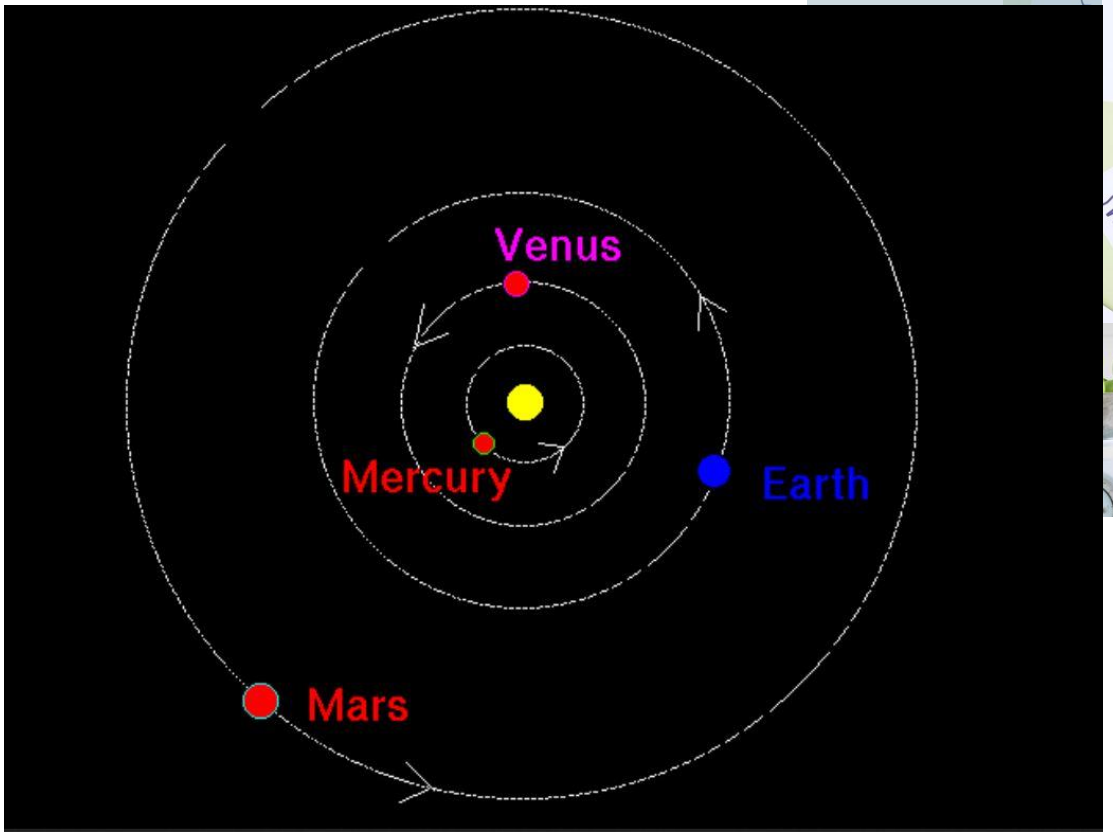





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# repeat

/ɔːrbɪt/

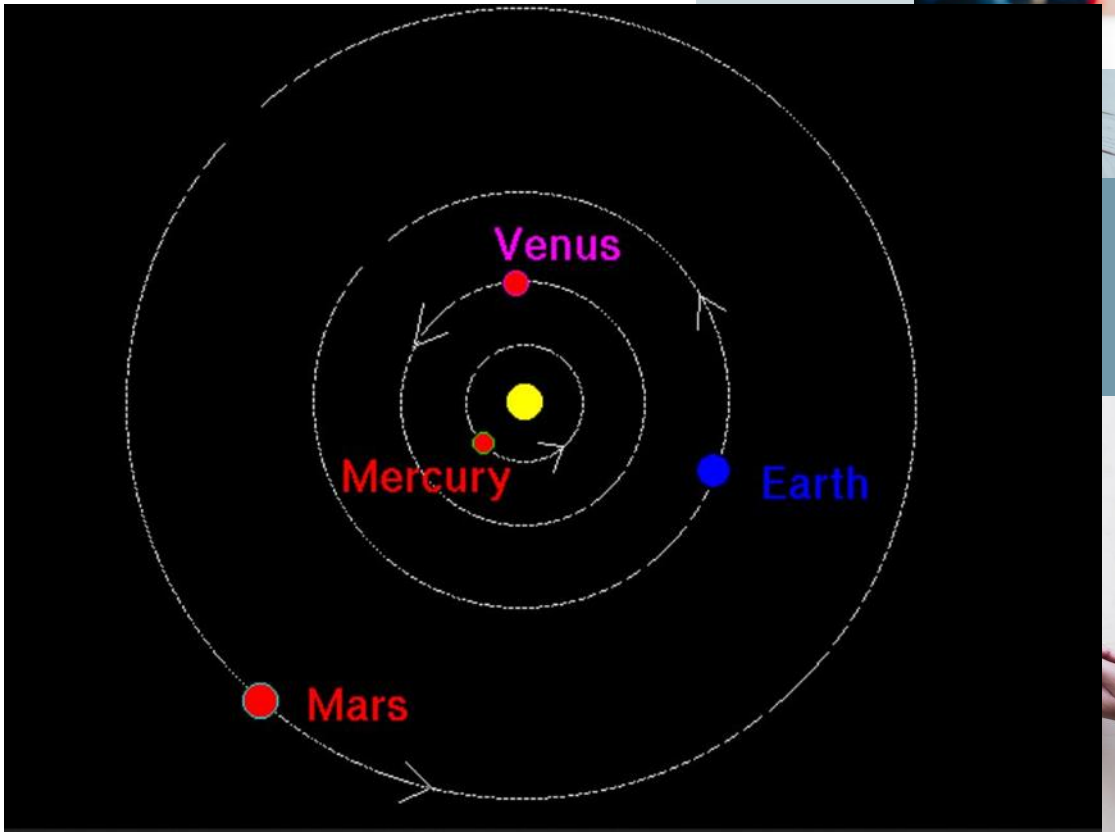


# Orbit

verb

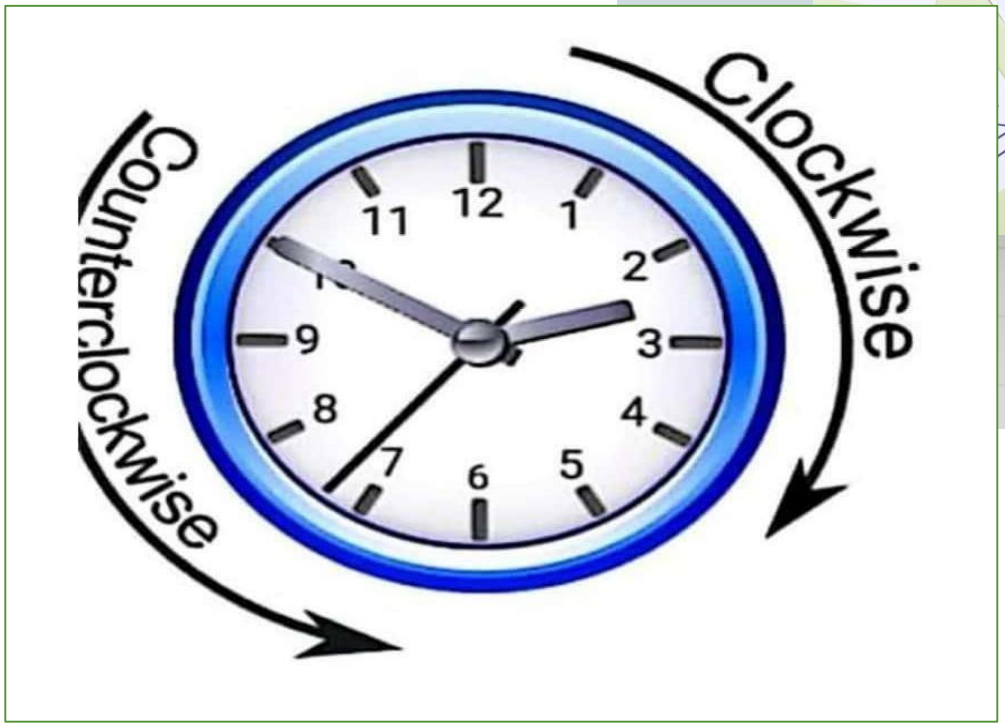
To travel in a path around a much larger object.

- The satellite orbits the Earth every 48 hours.



# Repeat

/ˈklɒkˌwaɪz/



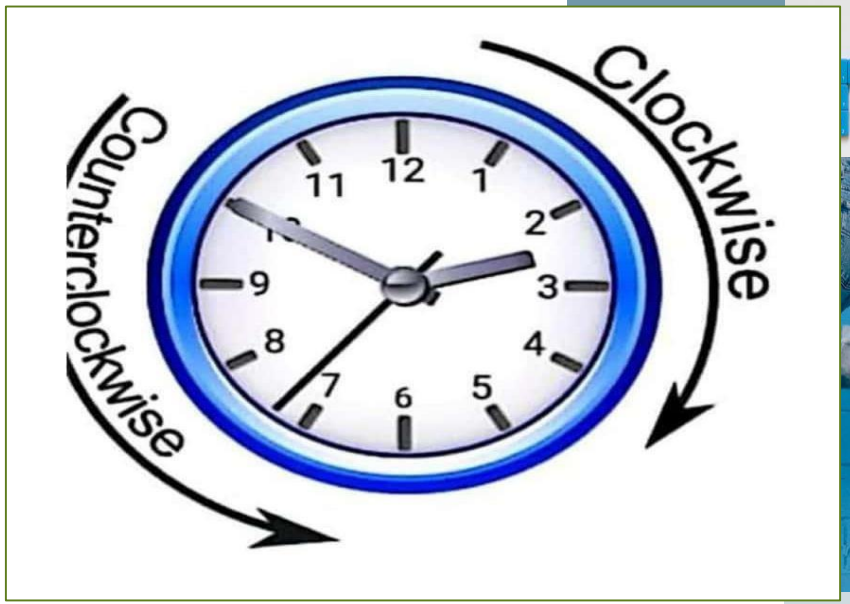
# Clockwise

adverb

Moving in the same direction of the hands on a clock.

Counter _clockwise # clockwise

- In our solar system, there are eight planets. They all orbit the Sun in a **counter-clockwise** direction.







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# Repeat

/ˈtelɪskəʊp/






# tel·e·scope

noun [countable]

a piece of equipment shaped like a tube, used for making distant objects look larger and closer

through a telescope

- Details on the Moon's surface can only be seen through a telescope.






# Repeat

/əˈstrɒnəmər/





**as·tron·o·mer**

noun [countable]

a scientist who studies the stars and planets





- I would like to study space and be a successful astronomer.

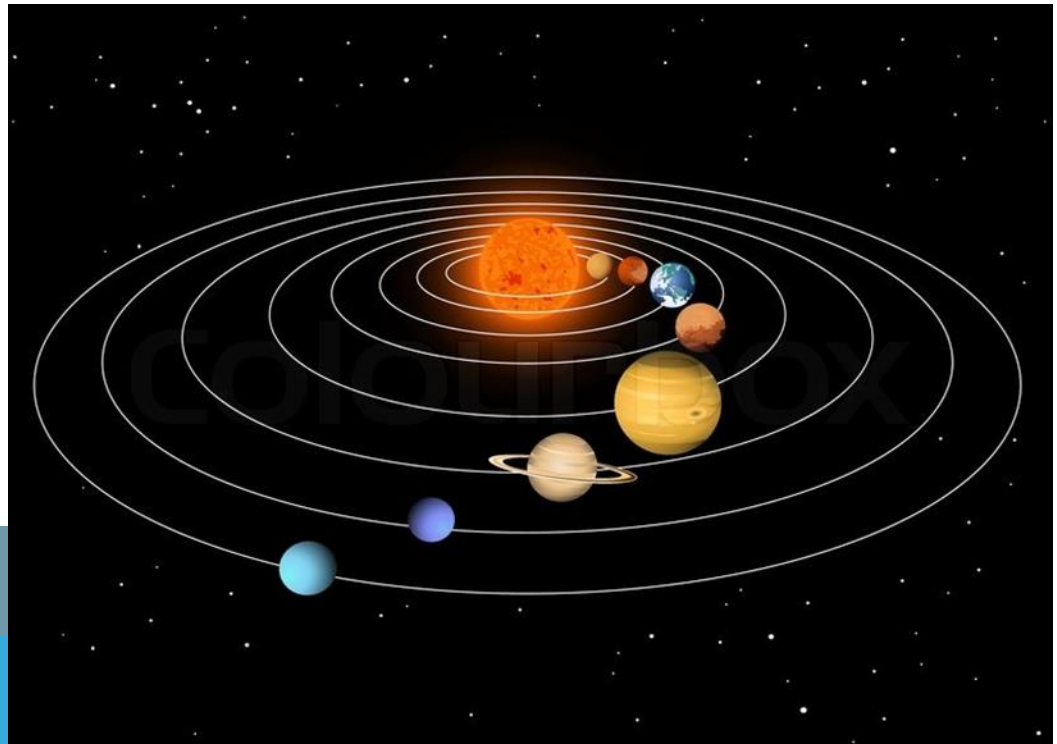
# Fill in the blanks with these words.

**counter clockwise _ orbit _ the solar system_ astronomers_ telescope**




1. Mercury is the hottest planet in…… .
2. You can see Venus with a……during the night.
3. The Moon……the Earth every 24 hours.
4. ……..use a telescope to see the eight planets.
5. It take the Earth one year to ……the Sun.

Listen to an astronomer talking about the planets. Listen to the audio carefully and say which planet is the biggest planet.



ˈmɜrkjəri
ˈvinəs
ɜrθ
mɑrz
ˈʤupətər
ˈsætərn
ˈjurənəs
ˈnɛptun

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Listen again. How high is the largest volcano on Earth?

What is the name of the largest volcano on Mars?










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**4** 14.1 Close your books. Listen again. Are these sentences true or false? Correct the false sentences.

1 All the planets go around the Sun in the same direction. True
2 There is no water on Mercury.
3 Venus is very hot.
4 Venus has the largest volcano.
5 Jupiter is small and very heavy.
6 Saturn is big and very light.
7 Neptune is very cold.
8 It takes Neptune a short time to orbit the Sun.

# COMPARE AND CHECK YOUR ANSWERS.

1 All the planets go around the Sun in the same direction. True
2 There is no water on Mercury.
3 Venus is very hot.
4 Venus has the largest volcano.
5 Jupiter is small and very heavy.
6 Saturn is big and very light.
7 Neptune is very cold.
8 It takes Neptune a short time to orbit the Sun.

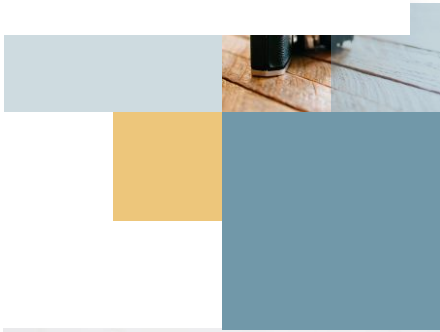
**Answers**
1 *True* 2 False. Astronomers have found ice on it. 3 True 4 False. Mars has the largest volcano. 5 False. It is 318 times heavier than the Earth. It is the biggest planet. 6 True 7 True 8 False. It takes Neptune 165 years to orbit the Sun.

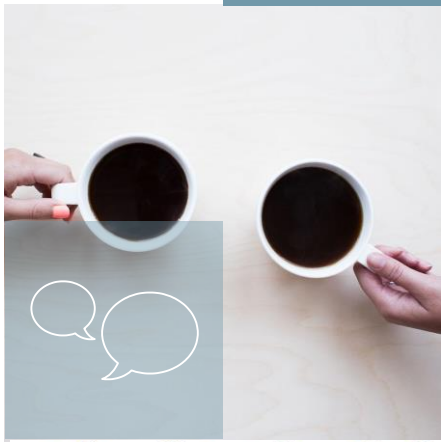
# Read the first column and tell the summary to your partner.

Mercury is the closest planet to the Sun but it is not the hottest. It looks a little like our moon. Astronomers didn't think there was any water on Mercury, but now they can see ice on it.

Mercury is closer to the Sun than Venus, but Venus is the hottest planet. It is over 400 degrees celsius. It is also the brightest planet and you can see it without a telescope.

The Earth is between Venus and Mars. Mars is colder than Mercury and Venus, but it is not the coldest planet. Mars has the largest volcano in our solar system. Its name is Olympus Mons and it is twenty-seven kilometers high and eighty-one kilometers wide. The largest volcano on Earth is nine kilometers high.





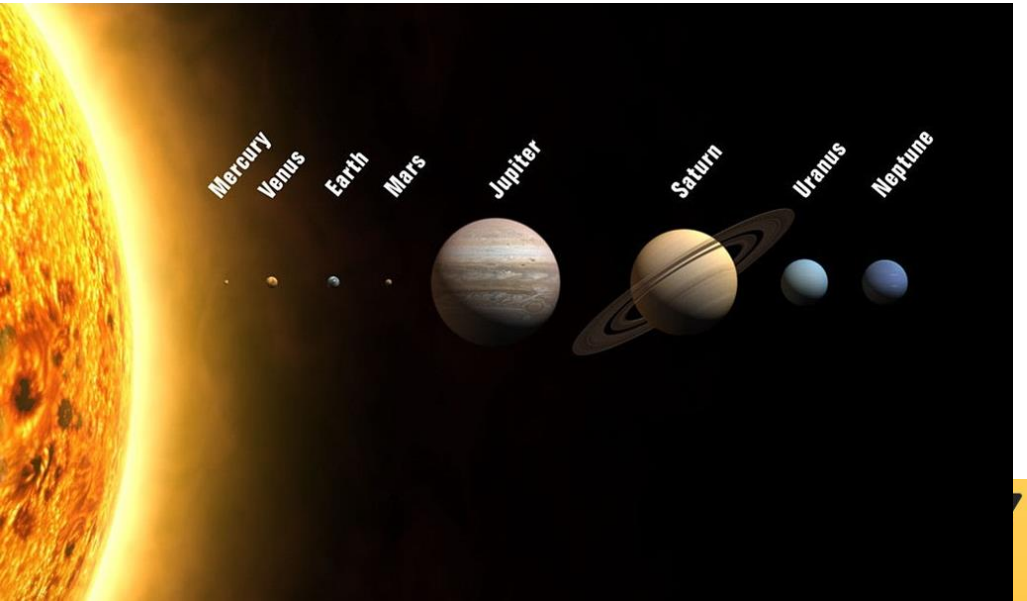
# Read the second column and tell the summary to your partner.

Jupiter is 318 times heavier than the Earth. It is the biggest planet. Jupiter has the shortest day of all the planets. A day on Jupiter lasts nine hours and fifty-five minutes.

Saturn is smaller than Jupiter, but it is the second biggest planet. It is also the lightest planet. Uranus is smaller than Saturn and Jupiter, but it is bigger than the other planets. Neptune is smaller than Uranus but it is heavier. It is the farthest from the Sun, and it is the coldest planet (-201°C). Neptune is also the slowest to orbit the Sun. It takes Neptune 165 years to orbit the Sun.



1. Which part of the text is the most interesting / surprising?
2. 2. According to the passage, a day on Jupiter lasts nine hours. Would you like to live there and have shorter days?



# The eight planets

Analyze the text.

**In our solar system, there are eight planets.**
**They all orbit the Sun in an counter-clockwise direction.**

Mercury is the closest planet to the Sun but it is not the hottest. It looks a little like our moon. Astronomers didn't think there was any water on Mercury, but now they can see ice on it.

Mercury is closer to the Sun than Venus, but Venus is the hottest planet. It is over 400 degrees celsius. It is also the brightest planet and you can see it without a telescope.

The Earth is between Venus and Mars. Mars is colder than Mercury and Venus, but it is not the coldest planet. Mars has the largest volcano in our solar system. Its name is Olympus Mons and it is twenty-seven kilometers high and eighty-one kilometers wide. The largest volcano on Earth is nine kilometers high.

Jupiter is 318 times heavier than the Earth. It is the biggest planet. Jupiter has the shortest day of all the planets. A day on Jupiter lasts nine hours and fifty-five minutes.

Saturn is smaller than Jupiter, but it is the second biggest planet. It is also the lightest planet. Uranus is smaller than Saturn and Jupiter, but it is bigger than the other planets. Neptune is smaller than Uranus but it is heavier. It is the farthest from the Sun, and it is the coldest planet (-201°C). Neptune is also the slowest to orbit the Sun. It takes Neptune 165 years to orbit the Sun.

# HOMEWORK

Search the Internet and find some information about a planet. Prepare a short presentation and next session tell your friends about that planet in class.



