

Name: _____

The Inner Solar System

by Leslie Cargile

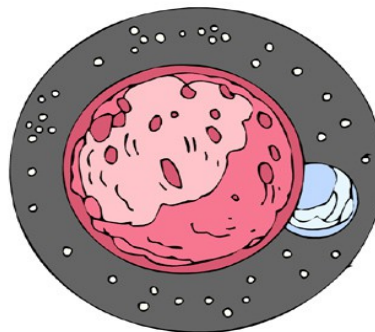
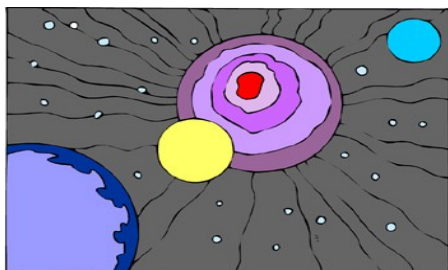
The inner solar system is the name of the terrestrial planets and asteroid belt. Terrestrial is just a fancy way of saying rocky. Like the Earth, terrestrial planets have a core of iron and rock.

At the center of the solar system is the Sun. The Sun is a big ball of hydrogen powered by nuclear reactions. Massive explosions are going on all of the time inside the Sun. It's what makes the light every day and keeps our planet warm. Light zips from the Sun to us in about eight minutes. The Sun is the most massive thing in our solar system. It is so big you could fit about a million Earths inside of it!

Closest to the Sun is the planet Mercury. You could squeeze about eighteen Mercury's inside of Earth. It is made of mostly rock, but it has a huge iron core and it generates a big magnetic field. Speedy little Mercury sails around the sun in only eighty-eight days. Mercury was the m know

somet
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more

winds shoot sand made of silicate around Venus's very dry, arid surface. The temperature averages nine hundred degrees, and the pressure's ninety times that on Earth. It takes two hundred and twenty four days to orbit the sun. Like Mercury, Venus was also named after a Roman Goddess, the Goddess of love.



You know what planet is next. You live on it! Yup, the Earth is number three. We have a rocky iron core at the center of our planet. We have liquid water, and our air is made of mostly nitrogen and oxygen. It takes three hundred and sixty-five days for us to circle the sun. We only have one moon.

Next to us in is Mars. Mars also has a core of rock and iron. It is a little more than half the size of Earth. The most distinct feature about Mars is its red color. Dust rich in iron oxide covers the white

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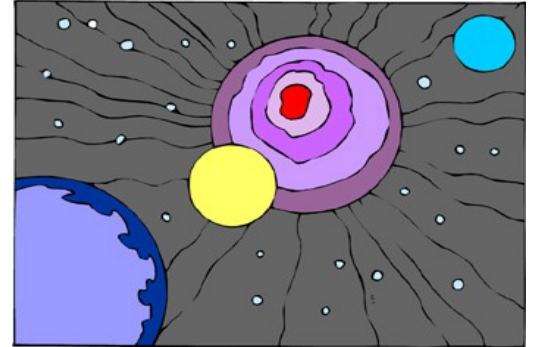
The last part of the inner solar system is called the Asteroid Belt. It's the line between the inner rocky planets and the outer gaseous planets. Unlike the rest of the Inner Solar System, the Asteroid Belt isn't a planet at all. It is a bunch of large rocky chunks, mostly meteoroids. There's also a dwarf planet named Ceres in the asteroid belt. The rest aren't very large.

The Earth is the only planet that we know of with life on it, but universe is a big place. Much of our solar system is still a mystery, there is still plenty to explore.

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The Inner Planets

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1. How does the size of Mercury compare to Earth?
 - a. Mercury is 18 times the size of Earth
 - b. Mercury is $\frac{1}{18}$ the size of Earth.
 - c. Earth is $\frac{1}{18}$ the size of Mercury.
 - d. Earth is 18 times smaller than Mercury.
2. Which statement about the inner planets' orbits is true?
 - a. Venus orbits the sun more quickly than Mercury.
 - b. Mercury orbits the sun more slowly than Mars.
 - c. Earth orbits the sun more quickly than Venus.
 - d. Mars orbits the sun more slowly than Earth.

3. What two types of gas make up most of Earth's atmosphere?
_____ and _____



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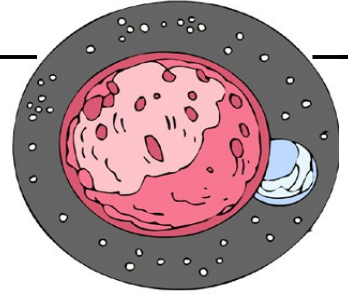
- 4.
- 5.
6. Which would be the most appropriate nickname for Venus?
 - a. the cold desert planet
 - b. the first inner planet
 - c. the windy planet
 - d. the triple mooned planet

Now Try This: Make a Venn diagram to compare and contrast Earth and Venus.

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The Inner Planets

Vocabulary Activity



Fill in the missing letters to create a word from the article.

Then, write the full word on the line. Be sure you spell each word correctly.

1. _ i _ _ _ _ r _ _ _ e _

clue: likenesses

1. _____

2. _ _ _ a _ _ r

clue: an imaginary line around the center of a planet

2. _____

3. _ a _ e _ u _

3. _____



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4. _____

5. _____

clue: rocky

6. _ _ _ r _ _ e _

clue: most abundant gas on Earth

6. _____

7. _ a _ _ i _ e

clue: containing a lot of mass; large

7. _____

ANSWER KEY

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1. How does the size of Mercury compare to Earth? **b**
- a. Mercury is 18 times the size of Earth

Preview

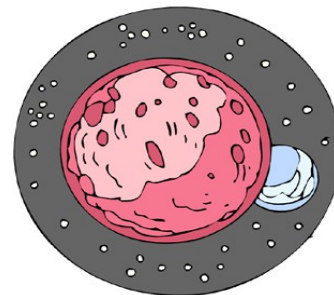
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5. Which would be the most appropriate nickname for Venus? **c**
- a. the cold desert planet
- b. the first inner planet
- c. **the windy planet**
- d. the triple mooned planet

Now Try This: Make a Venn diagram to compare and contrast Earth and Venus.

ANSWER KEY



The Inner Planets

Vocabulary Activity

Fill in the missing letters to create a word from the article.

Then, write the full word on the line. Be sure you spell each word correctly.

1. s i m i l a r i t i e s

1. similarities

clue: likenesses

2.

3.

4.

5.

6.

7.



clue: containing a lot of mass, large