

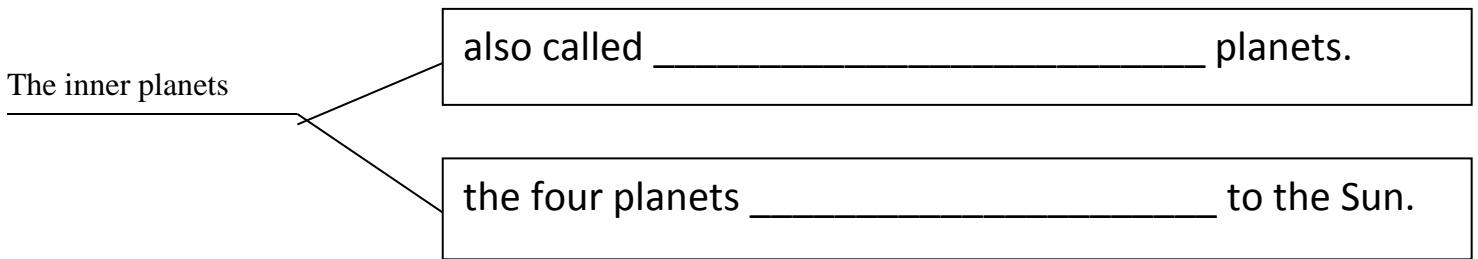
**Main Idea: Planets Made of Rock.**

How are the inner planets similar? \_\_\_\_\_

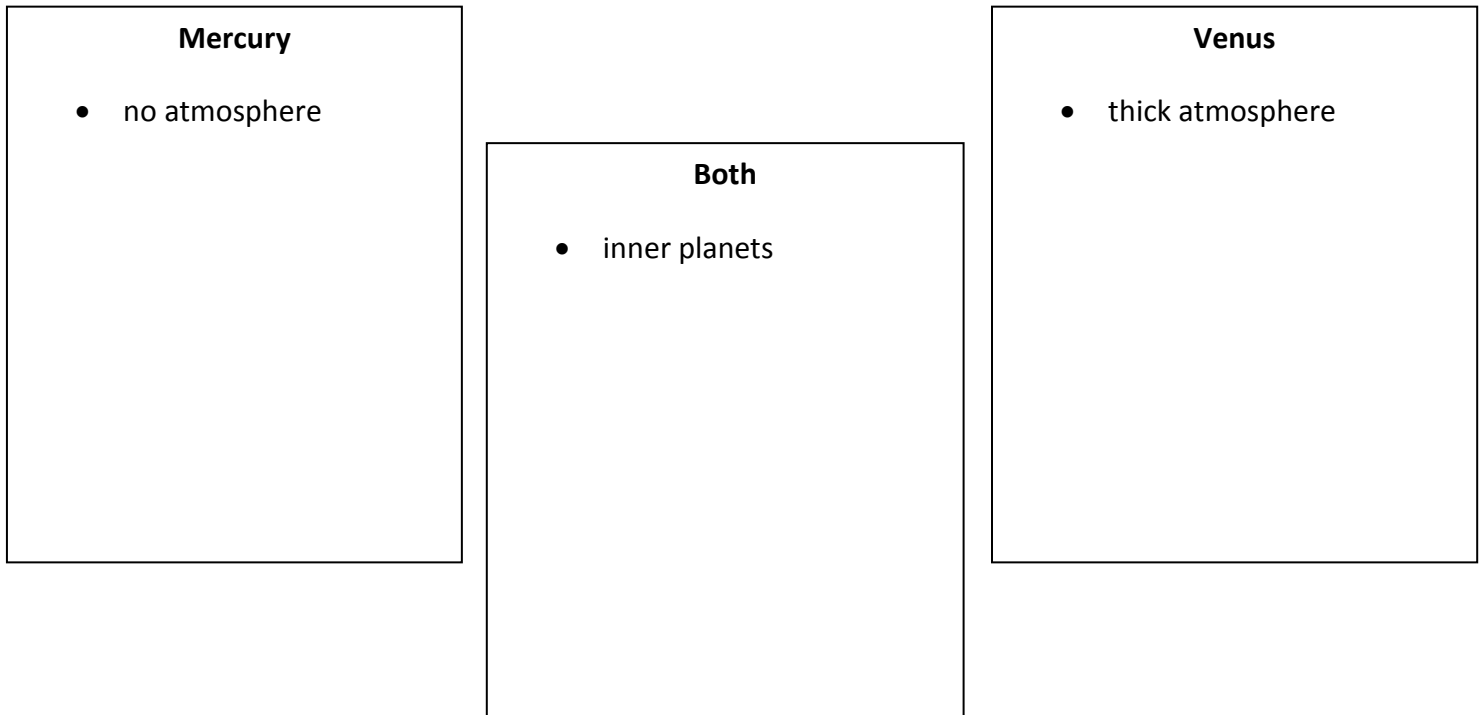
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\_\_\_\_\_

**Describe** *the inner planets by completing the diagram.*



**Compare and contrast** *characteristics of Mercury and Venus.*



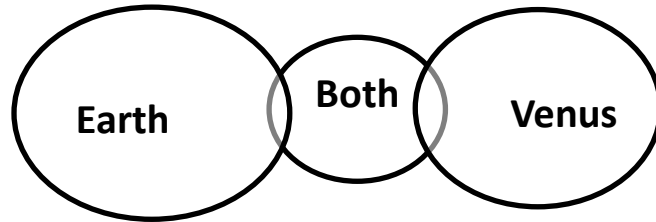
**Explain** *why Venus is hotter than Mercury:*

\_\_\_\_\_

\_\_\_\_\_

**Sort** facts about Earth and Venus. Place the number of each fact in the Venn diagram.

- |                                   |                                     |                              |
|-----------------------------------|-------------------------------------|------------------------------|
| 1. has a greenhouse effect        | 4. year is longer than its day      | 8. a terrestrial planet      |
| 2. has extremely high temperature | 5. atmosphere mostly carbon dioxide | 9. an inner planet           |
| 3. has water in its atmosphere    | 6. rotates counterclockwise         | 10. has a moon               |
|                                   | 7. rotates clockwise                | 11. has water on its surface |
|                                   |                                     | 12. can support life         |



**Summarize** information about the inner planets. Place a check mark in each box that applies to each planet.

	Mercury	Venus	Earth	Mars
Atmosphere				
Inner and outer core				
Liquid outer core				
Liquid core, only				
Solid inner core				
Atmosphere 90 % CO <sub>2</sub>				
Cratered surface				
Liquid water on surface				
Ice on surface				
A moon or moons				
Mantle and crust				
Sighs of volcanic action				

**Synthesize It:** From Earth, Venus looks like a very bright star in the night sky. If you could look at Earth from Venus, what would Earth look like? Explain your answer.

Main Idea: The Gas Giants

Detail three ways in which the outer planets are similar.

1. Composed of: \_\_\_\_\_
2. Gravitational force: \_\_\_\_\_
3. Structure: \_\_\_\_\_

Compare and contrast Jupiter and Saturn in the chart below.

Jupiter		Saturn
Different	Same	Different
ring system: _____	atmosphere: hydrogen and helium	ring system: _____
diameter: _____ times Earth's diameter	core: solid	diameter: _____ times Earth's diameter
average distance from Sun: _____ AU	rings	average distance from Sun: _____ AU
appearance of atmosphere: colorful _____	many moons	appearance of atmosphere: colorful _____

Why is Jupiter's period of revolution so much longer than the inner planets' periods of revolution?

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**Relate** *Jupiter's moons to the formation of the planet's rings.*

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Describe what makes up Saturn and its ring system.

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**Compare and contrast** *characteristics of Uranus and Neptune: Include at least ten facts in your response.*

Uranus
•
•
•

Both
• outer planets
•
•
•
•
•

Neptune
•
•
•

**Identify** *four characteristics common to all the outer planets.*

1. \_\_\_\_\_

3. \_\_\_\_\_

2. \_\_\_\_\_

4. \_\_\_\_\_