

**Grade Level/Course:**

Grade 8 Physical Science

**Lesson/Unit Plan Name:**

Astronomy Review ZipAround

**Rationale/Lesson Abstract:**

Review of standards, vocabulary and concepts from Standard 4: Earth in the Solar System.

**Timeframe:**

5-15 minutes

**Standard(s):****Earth in the Solar System (Earth Sciences)**

4.1 The structure and composition of the universe can be learned from studying stars and galaxies and their evolution. As a basis for understanding this concept:

a.1 *Students know* galaxies are clusters of billions of stars and may have different shapes.

b.1 *Students know* that the Sun is one of many stars in the Milky Way galaxy and that stars may differ in size, temperature, and color.

c.1 *Students know* how to use astronomical units and light years as measures of distances between the Sun, stars, and Earth.

d.1 *Students know* that stars are the source of light for all bright objects in outer space and that the Moon and planets shine by reflected sunlight, not by their own light.

e.1 *Students know* the appearance, general composition, relative position and size, and motion of objects in the solar system, including planets, planetary satellites, comets, and asteroids.

**Instructional Resources/Materials:**

35 Zip Around Cards -- attached

Timer

**Activity/Lesson:**

Print the cards and cut them out. Distribute all of the cards to the students. Classes with fewer than 35 students may have multiple cards per student.

Students read aloud one of 35 question cards, and another student in class who has its response reads the card aloud—the response, along with the next question. This pattern continues throughout the class until the first original question is reached. Practice first, then set a time goal for the class to get through the entire set. Progressively set the goal faster and faster. Students may also trade cards with others for subsequent rounds. Scaffold by allowing students to share responses with each other in advance, or ask a partner for help in advance.

**Assessment:**

Students read questions and responses within the time goal that has been set.

<p>I have <b>Jupiter.</b></p> <p>Who has <b>the distance to the nearest star?</b></p>	<p>I have <b>Uranus.</b></p> <p>Who has <b>satellites?</b></p>
<p>I have <b>4 light years.</b></p> <p>Who has <b>a shooting star?</b></p>	<p>I have <b>moons orbiting a planet.</b></p> <p>Who has <b>1 Astronomical Unit?</b></p>
<p>I have <b>the nickname for a meteor.</b></p> <p>Who has <b>Mercury?</b></p>	<p>I have <b>the distance from the sun to Earth.</b></p> <p>Who has <b>where asteroids are found?</b></p>
<p>I have <b>the closest planet to the sun.</b></p> <p>Who has <b>the shape of an orbit?</b></p>	<p>I have <b>between Mars &amp; Jupiter.</b></p> <p>Who has <b>why Venus is so hot?</b></p>
<p>I have <b>an ellipse.</b></p> <p>Who has <b>the planet that spins on it side?</b></p>	<p>I have <b>its strong greenhouse effect.</b></p> <p>Who has <b>one orbit around the sun?</b></p>

I have  
**a revolution.**

Who has  
**a solar eclipse?**

I have  
**“Gas Giants”.**

Who has  
**what is made mostly of ice?**

I have  
**the moon blocking the sun.**

Who has  
**spiral?**

I have  
**a comet.**

Who has  
**how the moon is lit up?**

I have  
**the shape of the Milky Way galaxy.**

Who has  
**Mars?**

I have  
**reflected sunlight.**

Who has  
**a cluster of billions of stars?**

I have  
**“The Red Planet”.**

Who has  
**the layer of gases around a planet?**

I have  
**a galaxy.**

Who has  
**one Earth rotation?**

I have  
**the atmosphere.**

Who has  
**the four outer planets?**

I have  
**24 hours.**

Who has  
**the meaning of terrestrial?**

I have  
**solid ground or surface.**

Who has  
**Venus?**

I have  
**Earth.**

Who has  
**blue?**

I have  
**The hottest planet.**

Who has  
**the number of stars in  
our solar system?**

I have  
**the color of the hottest  
stars.**

Who has  
**Saturn?**

I have  
**one.**

Who has  
**another word for  
revolution?**

I have  
**the planet about the  
size as Jupiter.**

Who has  
**a crater?**

I have  
**orbit.**

Who has  
**the moon turning dark  
and red?**

I have  
**the hole a meteor leaves  
when it hits.**

Who has  
**gravity?**

I have  
**a lunar eclipse.**

Who has  
**the only planet with  
liquid water?**

I have  
**what keeps planets  
orbiting the sun.**

Who has  
**the back of the moon lit up?**

I have  
**a new moon.**

Who has  
**the 8<sup>th</sup> planet?**

I have  
**Neptune.**

Who has  
**A constellation?**

I have  
**a picture in the night sky.**

Who has  
**the study of stars and planets?**

I have  
**astronomy.**

Who has  
**why Earth has seasons?**

I have  
**it is tilted toward or away from the sun.**

Who has  
**the king of the Roman gods?**