**Chapter 39: The Solar System**

**Conceptual Physical Science Explorations**

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| ***Page 700*** *– What is this chapter about?* |  |
| ***Page 701****: How many people have stood on the Moon?*  *What are the three theories of how the moon was formed?*  *What is the approximate diameter of the moon?*  *Does the moon have an atmosphere?*  *What is the only eroding agent on the moon?* | *1.*  *2.*  *3.* |
| ***Page 707: How did the Solar System form?***  *How is it believed that the sun formed?*  *How long ago did the sun form?*  *Where did all elements, besides hydrogen and helium form?*  *What provides material for new stars?*  ***What does Figure 39.13 say?***  ***Page 708: How did the Solar System form? (hint: 1st paragraph on page 708)***  *What is the difference between the inner 4 planets and the outer 4 planets?* |  |
| ***Page 708: Planets of the Solar System –***  *How could the ancients tell the difference between stars and planets?* |  |
| ***Page 709:****Look at Table 39.1. What is the main difference between the diameter of the first four planets (not including the sun!) and the next four planets?*  *What’s the difference between the Average Density of the first four planets and the next four?*  *What does Figure 39.16 show about the spacing of the planets?* |  |
| ***Page 710: The Inner Planets – Mercury, Venus, Earth, and Mars.***  *How long does it take for Mercury to circle the sun?*  *How hot is a typical day on Mercury?*  *How cold is a typical night on Mercury?*  *What planet most closely resembles the Earth?*  *What is the average temperature on Venus?*  *How long does it take for Venus to spin 1 time? (one day)*  *Describe Venus’ atmosphere and volanism.*  *What makes up 96% of Venus’ atmosphere?*  *Why is Earth called the blue planet?*  *Why is the Earth “a very nice place to live?”*  *How big is Mars compared to the Earth?*  *Describe Mars’ atmosphere and temperature.*  *Cont’d.*  *Did Mars ever have running water? How do you know?*  *How strong are the Martian winds?* |  |
| ***Page 712: The Outer Planets –Jupiter, Saturn, Uranus, and Neptune.***  *Name 4 differences between the inner four planets and the outer 4.*  *What does Jovian planet mean?*  *What does terrestrial planet mean?*  *What would happen if an astronaut tried to stand on Jupiter?*  *What is the average diameter of Jupiter?*  *How much more volume does Jupiter have vs. Earth?*  *How many moons does Jupiter have?*  *How big is Saturn compared to the Earth?*  *What makes up Saturn’s rings?*  *How thick are Saturn’s rings?*  *How many moons does Uranus have?*  *How big is Neptune compared to the Earth?*  *How many moons does Neptune have?*  *How long is one year on Pluto?(the time it takes it to go around the sun one time)* | *1.*  *2.*  *3.*  *4.* |