**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.* |