

Name: Class Copy

Period: Subject: Int Science

Activity 2 - The Earth - Moon System

Read - Questions

The Formation of the Earth and Moon:

1. Describe the process by which the early Earth was formed.
2. What two objects collided to form the Moon?
3. After the Moon was formed, did objects continue to collide with the Earth and Moon? What evidence is there of these collisions on the Moon?
4. While the Earth **also** experienced many collisions after being formed, it doesn't show nearly as much evidence of this as the Moon does. Name two reasons this is so (one reason we talked about in class, one reason is in the reading).

Tides:

5. What is the "Earth tide"? How large is the Earth tide?
6. Where do we find the "bulge" or "bulges" of the ocean tide?
7. How many high tides are there each day? How much later are the high tides each day compared to the previous day?
8. What other object besides the Moon affects the ocean tides on Earth? What is the difference in strength of the tides due to these two objects?
9. What is a spring tide? During what phase(s) of the Moon would a spring tide occur?
10. Draw a diagram showing the positions of the Earth, Moon and Sun during a spring tide.
11. How do the high tides compare to normal during a "spring tide"? How do the low tides compare to normal during a spring tide?