Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_

**Scale of the Sun, Earth, Moon System**

1. Look at the models in the tub on your desk. The blue sphere is the Earth; One of the other three spheres is the moon. Which one do you think would be in scale with the Earth model? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_cm wide
2. The Earth model is 12cm wide. How big do you think the Sun would have to be to be in scale with the Earth model? (answer in feet or meters) \_\_\_\_\_\_\_\_\_\_\_

Read “Scaling the Sun-Earth-Moon System on page 18-21. Answer the following questions.

1. What is the diameter of the Earth at the equator? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the diameter of the moon? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. The moon is slightly more than \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the size of the Earth.
4. What is the distance from the Earth to the Moon? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. How many ‘Earth’s’ away is that? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. What is the diameter of the Sun? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. How many ‘Earth’s’ across is the Sun? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Why do the Sun and Moon appear to be the same size in the sky?
9. Now that you have read the article, do you think you chose the right sphere as the Moon? Which one should it be? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_cm