2. Pluto is most similar in composition which of the following objects? a. Eris; b. Jupiter; c. our Moon; d. Earth; e. the Sun.

6. Which giant planet formed first?

7. According to the Nice theory, where did the Kuiper Belt Objects and Oort Cloud Objects come from?

9. Jeans instability is responsible for what event in the life of the solar system?

13. What two properties of a planet must be known to determine its average density? How are these properties determined?

16. What is significant about the snow line described in this chapter?

17. What if Earth had a highly elliptical orbit, like Mercury? (20%) What would be different about Earth and life on it?

24. Search the Web for information about the cool, dim star Gliese 581. What is its mass compared to our Sun’s? How bright is it (its luminosity) compared to the Sun? How many planets are known to be orbiting it? How do their masses compare to Earth’s? What is special about Gliese 581c?