Guided Notes of the Formation of the Solar System (29.4)

1. Stars and planets form from ________________, called interstellar clouds, ________________

2. ________________ and ________________ make up most of the interstellar cloud.

3. An interstellar cloud can start to condense as a result of ___________ and ________________

   _________________. Astronomers believe our solar system formed this way.

4. A solar nebula is ________________

5. The growth of planets occurs because of continued ________________

   _________________.

6. The inner planets are rocky and dense because the Sun’s gravitational force ________________

   _________________.

7. Jupiter’s gravitational force prevented the planetesimals in the ________________ from merging to form a planet.

8. Asteroids range in size from ________________ and have ________________ surfaces.

9. When interplanetary material enters Earth’s atmosphere, it is called a _________________. If it burns up in Earth’s atmosphere, it will produce a streak of light called a _________________.

   Pieces that do not completely burn up and collide with the ground are called _________________.

10. Comets are _________________.

    _________________. They are made of __________ and ___________.