1. [2pt] By observing a comet over the course of a few months it is possible to determine its orbit. Suppose we find a new comet and determine the orbital period is 8000 years. What is the most likely origin of this comet?
   A) Kuiper Belt
   B) From near the orbit of Neptune
   C) Asteroid Belt
   D) Oort Cloud
   E) From the pocket of Trojan Asteroids

2. [2pt] What are comets typically made of?
   A) silicate rock and water (in the form of ice)
   B) water (ice) and carbon
   C) iron and water (ice)
   D) rock and iron
   E) hydrogen and helium

3. [2pt] The most common type of asteroid is the C-type. What element is most abundant in these asteroids? Hint: Think of where the C might come from in C-type?
   A) oxygen
   B) helium
   C) carbon
   D) iron
   E) hydrogen

4. [2pt] What component of a comet is responsible for the dust tail?
   A) iron
   B) ions
   C) water
   D) dust
   E) Comets do not have dust tails.

5. [2pt] Which parts of the solar system are the source of most comets?
   A) Jupiter and Saturn.
   B) Oort cloud and the Kuiper Belt
   C) The Sun and Jupiter.
   D) The Sun and the Asteroid Belt.
   E) The Sun and Neptune.