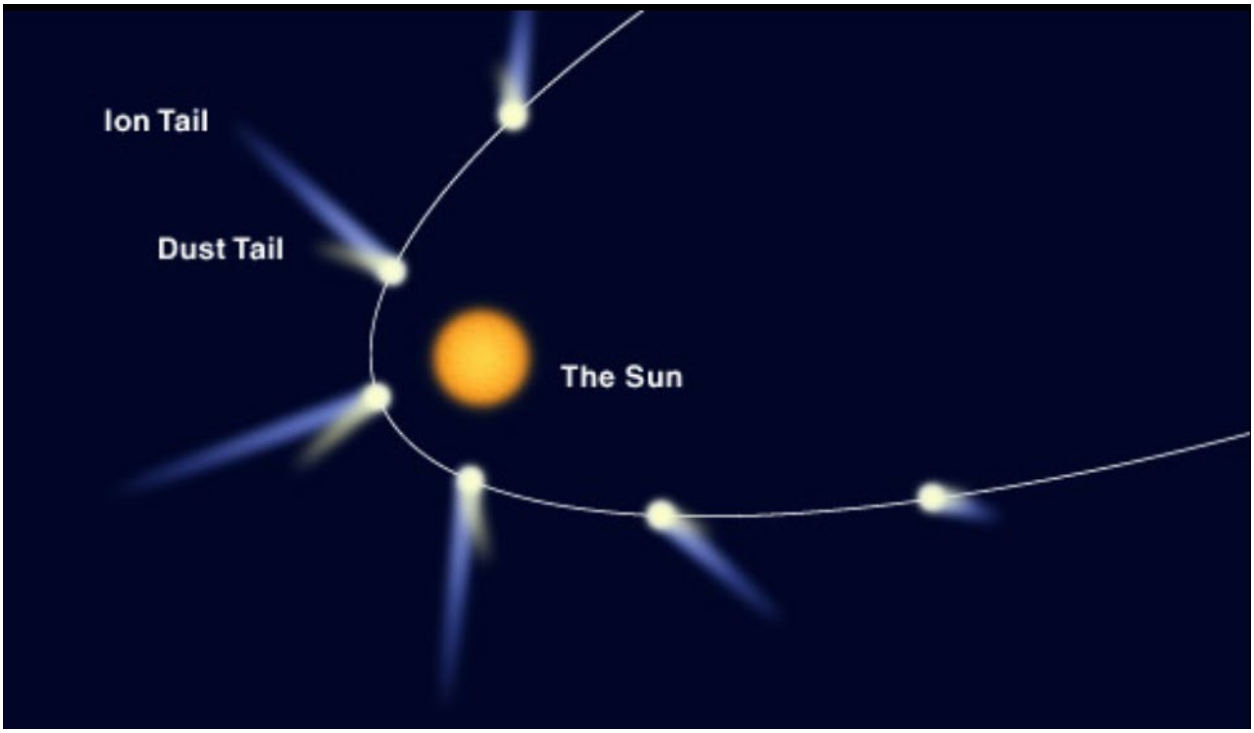
# COSMIC COLLISIONS MOVIE

NAME _____ HR___/16

Directions: Below is a diagram of the path of a comet around the Sun. Answer the questions based on that diagram.




1. How would you describe the path of a comet around the Sun?

2. Where in its path is the comet at its brightest?

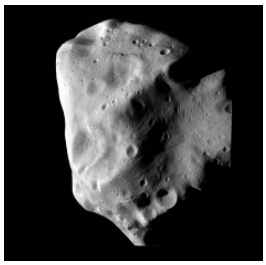
3. Why is the ion tail of the comet always pointed away from the Sun?

4. Comets lose some of their matter every time they pass the Sun. Why?

# Cosmic Collisions Vocabulary NAME _____ HR___

Directions: Match the words with the definitions at the bottom of the page. Write the letter of the definition next to the term. Label the 2 pictures.

1. ___Meteor
2. ___Asteroid
3. ___Meteorite
4. ___Asteroid Belt
5. ___Comet
6. ___Oort Cloud
7. ___Tail
8. ___Meteoroids
9. ___Crater
10. ___Coma



11. _____

12 _____

A. Orbits the Sun between the orbits of Mars and Jupiter.

B. An object made of frozen gas, dust and pieces of rock.

C. Fuzzy glowing ball that forms when a comet gets close to the Sun.

D. Meteors that make it through the atmosphere and hit the surface of the Earth.

E. Made by the solar wind as its particles hit a coma and blow out material. It always faces away from the Sun.

F. Any kind of particles in space. Mainly the remains of comets.

G. Pieces of rock or dust that burn up as they speed through the Earth's atmosphere.

H. The largest space rocks.

I. A bowl-shaped hole on the surface of a planet or our Moon.

J. Home to possibly 100 billion comets, it is as much as 50,000 times farther from the sun than the Earth.