

1. The figure shows Comet Hyakutake. (To see the colors, download this assignment from angel.)
 - a. (2 pts.) Identify the ion tail and the dust tail. Explain.
 - b. (3 pts.) On the figure, sketch the magnetic field of the sun. Be certain to show the effect of the comet on the field.
 - c. (3 pts.) On the figure sketch the motion of the ions on both larger scales (AU) and small scales (100km).
2. (5 pts.) According to the ideas on the formation of the solar system, should the ratio of the amount of silicon to iron be the same for Jupiter and Earth? Explain.

