

ANATOMY OF A COMET

List 12 elements that have been found in comets:

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____
- 8) _____
- 9) _____
- 10) _____
- 11) _____
- 12) _____

What common molecules are found in comets?

- 1) _____
- 2) _____
- 3) _____

and the organic molecule: _____ which is a building block of proteins.

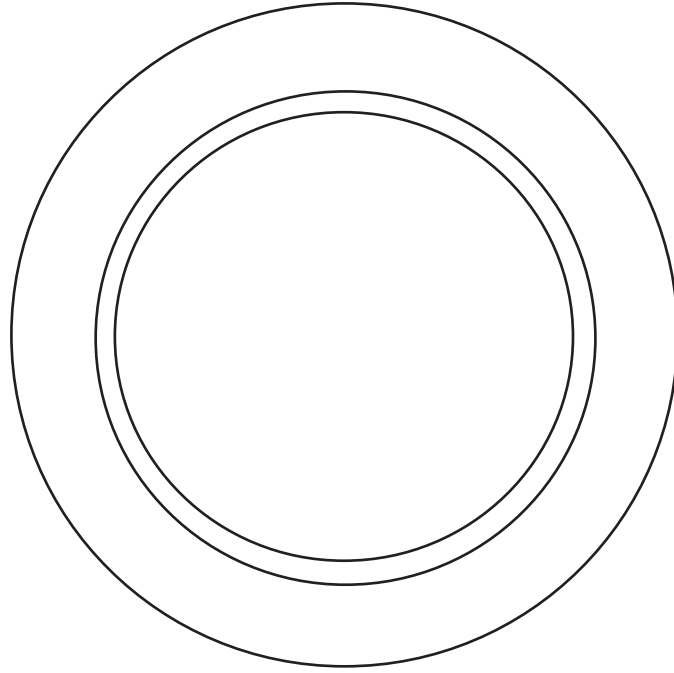
Comets also contain atoms of _____ and _____ that are arranged into crystalline patterns found in silicate minerals. (HINT: quartz and sand are silicates).

A comet is about _____ % empty space.

How do we know that comets contain Na (sodium)? When you look at the light coming from comet through a spectrometer, you see the unique pattern made by burning sodium



Draw sodium's spectral lines



Finish drawing the comet's head, and label the parts.

Draw a dust tail and a plasma tail. Make the dust tail yellow and the plasma tail blue.