## Comets and their orbits

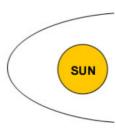
## Students use information to label a diagram and draw the orbit of a comet.

Comets are balls of frozen ice and gas that contain rocky fragments. Most of the mass of a comet is in its nucleus. A comet's orbit is longer and narrower than the orbit of a planet. As the comet approaches the Sun, some of the nucleus evaporates forming the coma around it, together with a glowing tail of dust and gases. This tail points away from the Sun.

a)Use the information above to label this cross section of a comet.



b)Part of the orbit of a comet has been drawn. Complete the rest of the comet's orbit.



c)The diagrams below show a comet in two different parts of its orbit. Redraw these comets onto the orbit in question b). (Use the information in the box to help you).





Published on Assessment Resource Banks (https://arbs.nzcer.org.nz)