



Topic/Objective CHAPTER:

NAME:

Pd: 1 2 4 5 other

DATE

Essential Question

What are Comets

Cue: Review:
Thoughts: Main Idea

NOTE Taking AREA:

Comets

→ "hairy stars"
 → fuzzy blob, moving slowly across the stars, often called Omen's or Harbingers of Human events
 → have been around for long time
 i.e. → Comet Halley is shown in the Bayeux Tapestry (1066)
 → Seen by Ancient Chinese & Greeks

What it looks like in the sky

in the sky, they often appear as a fuzzy blob w/ long tail stretching away from it.

Made up of what?

→ Comets are left over stuff from the solar system w/ balance of Ice & Rock.

Ingredients

→ A.K.A. → Dirty Snowball
 Frozen CO_2 , CO , CH_4 , NH_3 ,
 gravel, dust, soil
methane
Ammonia



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NOTE Taking AREA:

Comets
in Deep Space

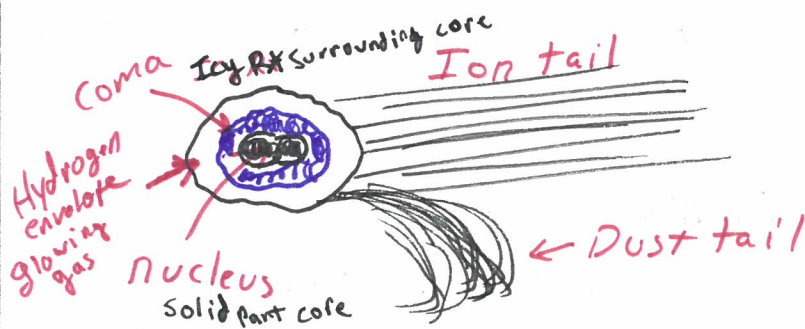
↳ So cold nothing more than Frozen snowball

↳ But as they move closer towards the ☉, they begin to **Sublimate**.

Sublimate

↳ gas begins to glow forming an envelope which surrounds the comet.

Parts of a
Comet



Hydrogen envelope develops when comet approaches the ☉

Coma = latin hair

Ion tail

↳ charged particles from solar wind. Always points 180° from the ☉. usually blue or green

Dust tail

↳ material given off by the comet. follow its orbit of the comet. usually white or yellow

Comet

Classification 2 ways

SUMMARY:

↑ **periodic comets** i.e. Halley's Comet every 76 years.
Short term → when comet returns w/in 200 years
Same Plane & direction found in Kuiper Belt

Long term → when comet doesn't return or longer than 200 years found in the Oort Cloud