



Topic/Objective CHAPTER:

NAME:

Pd: 1 2 4 5 other

DATE

Essential Question

What is an Oort Cloud?

Cue: Review:
Thoughts: Main ideas

NOTE Taking AREA:

Turn back

Time

4.5 billion ya

Solar system coalescing out of a flat disk of material. i.e. Pizza dough started spinning Counter Clockwise w/ inner planets being warmer, smaller, and rocky. while outer planets are colder and grew huge.

Other material was left over in the form of ice mixed in w/ dust and other stuff.

Nice Model

If the outer planets didn't pull the junk in or fling it out into space, they collide just outside the orbit of ♃.

3 distinct Locations.

1.) Icy objects w/ stable orbits unaffected by ♃ is called Kuiper Belt
↳ Gerard Kuiper Dutch Astronomer

Donut shaped & Aligned w/ plane

2) Scattered Disk region

↳ overlaps Kuiper belt on its inner edge and has weird, highly tilted orbits

NOTES CONTINUE ON OTHER SIDE



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NOTE Taking AREA:

3. Spherical cloud of icy objects called Oort cloud
↳ Jan ("Year") Oort proposed it.

Oort
Cloud

↳ long period comets are found here

Scattered
disk

↳ short period comets (less than 200 yrs)

Plutinos

↳ orbit crosses Neptune b/c its tilted

1992QB1

Pluto, Sedna, Eris are some examples

↳ moon is Charon

These bodies probably formed near the Sun & dispersed through gravitational interactions

SUMMARY: