

NOTES: Small Solar System Bodies name: _____

These objects orbit the Sun:

1. Dwarf Planets (4 criteria)

- Pluto and 4 others (over a dozen candidates)
 - *Pluto (KBO) 1415 miles across*
 - *Eris (KBO) 1850 miles (3 x farther than Pluto)*
 - *Makemake (KBO)*
 - *Ceres 660 miles across (asteroid belt)*
 - *Haumea (KBO) 1/3 mass of Pluto*

2. Comets

Sources:

- *Halley's Comet*
 - *9.6 miles across, 1986, 2062*
 - *Period = 76 years*
- *Hale-Bopp 1997 is 25 miles across*
 - *Was visible for 18 months*
 - *Will return in 4550*

3. Asteroids

- *Over 90,000 numbered asteroids*
- *26 larger than 120 miles*
- *Over 1,000 PHAs*
 - *Larger than 100 m*
 - *Closer than .05 A.U. (4.6 million miles)*

4. Meteoroids

Sources

5. Kuiper Belt

- 30 - 50 A.U. from Sun (Pluto area)
- Discovered in 1992
- Over 70,000 objects (pieces of ice) larger than 100 km (~60 miles)
- Source of short-period comets (orbit Sun in less than 200 years)

6. Oort Cloud

- Over 50,000 A.U. from Sun
- Icy objects orbiting the Sun
- Theoretical
- Source of long-period comets

Assignment: Read text pages 660-665. (Honors: 655-660)