

# Asteroid belt movie

NAME \_\_\_\_\_ /35 PTS

<https://www.youtube.com/watch?v=vwfAb89aDwo>

1. Between what 2 planets is the asteroid belt located? (2pts) \_\_\_\_\_
2. What is the name of the first object to be observed in the asteroid belt? \_\_\_\_\_
3. By the year 2000, over \_\_\_\_\_ objects had been discovered.
4. When did the asteroid cause the dinosaur extinction? \_\_\_\_\_
5.  $\frac{1}{2}$  of the total mass of the asteroid belt is found in \_\_\_\_\_ objects.
6. All of the asteroid belt's mass only comes out to 4% of the Earth's \_\_\_\_\_.
7. Many ships have flown through the asteroid belt because the chances of hitting one are 1 \_\_\_\_\_ to one.
8. There are earth companies hoping to one day \_\_\_\_\_ the rare metals on the asteroids.
9. Asteroids could \_\_\_\_\_ on planet Earth, or other planets due to gravity.
10. The size of the asteroids ranges from \_\_\_\_\_ particles to \_\_\_\_\_ km wide. (2pts)
11. Ceres is considered a \_\_\_\_\_ planet.

# Pluto, Comets, Asteroids, and the Kuiper Belt movie

<https://www.youtube.com/watch?v=MD7Zt2cGXRc>

12. Pluto is smaller than our own moon, but does have several \_\_\_\_\_ of its own.
13. What is the name of the region 30 to 50 astronomical units from the sun? \_\_\_\_\_
14. To qualify as a planet, an object must \_\_\_\_\_ the region near its orbit of other debris.
15. Pluto is referred to as a \_\_\_\_\_ planet.
16. Much farther than the Kuiper belt is the \_\_\_\_\_ cloud, a spherical region tens of thousands of astronomical units from the sun.
17. A tran-neptunian object means anything beyond the orbit of \_\_\_\_\_.
18. What happens to the ice in these objects if they get pulled in towards the sun? \_\_\_\_\_
19. Most asteroids are too small to be crushed into \_\_\_\_\_ by their own gravity, so they have irregular shapes.
20. Why didn't the rocks in the asteroid belt become a planet? \_\_\_\_\_

21. If an object enters Earth's atmosphere, we call it a \_\_\_\_\_.
22. These bits of rock heat up from all the \_\_\_\_\_ due to colliding with particles in the air.
23. We get bombarded by \_\_\_\_\_ of them every minute and most meteorites are smaller than a \_\_\_\_\_.
24. If they are large enough and hit the ground, it's called a \_\_\_\_\_.
25. An asteroid 10 km across is responsible for the mass extinction of the \_\_\_\_\_.

## **COMET** MINI VIDEO- listen for your teacher's explanation

26. What is the nucleus of a comet? \_\_\_\_\_
27. What is the coma? \_\_\_\_\_
28. What is the tail? \_\_\_\_\_
29. How is the gas/plasma/ion tail always pointed? \_\_\_\_\_
30. What color is the gas/plasma/ion tail? \_\_\_\_\_
31. How is the dust tail pointed/shaped? \_\_\_\_\_
32. What color is the dust tail? \_\_\_\_\_