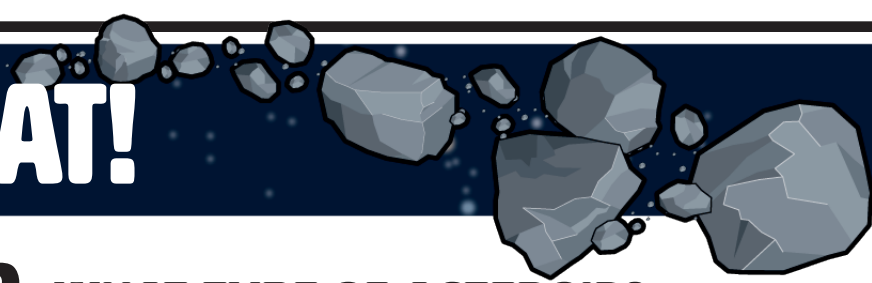


17.1 EARTH UNDER THREAT!



TASK 1: WHAT IS A PHA?

Read through the report on potentially hazardous asteroids (PHAs) and answer the questions below:

What is the definition of a Potentially Hazardous Asteroid (PHA)?

How many PHAs are thought to be in orbits that would cause concern?

Where is it believed many of these PHAs originated from?

Initial parameters of object:

Mass =

Radius =

Probability of impact =

TASK 2: WHAT TYPE OF ASTEROID?

Using the information you have been given, calculate the density of the object to determine the type of PHA that we are dealing with. The circle the type of object below and make your selection on the mission screen.

Density =

Stony meteorite
density range:

**3000–
3700kg/m**

Stony-iron meteorite
density range:

**5000–
5600kg/m**

Iron meteorite
density range:

**7000–
8500kg/m**

