Exoplanet Project Extra Help!

Always include units in your calculations.
Get your worked checked by your teacher!

Exoplanet Project Conversions

- What is scientific notation?
- What is an AU?
  - Astronomical Unit
  - Distance from Earth to the Sun
  - 149, 597, 871 km
  - 149, 597, 871, 000 m
- Research you will have to do...
  - Mass of the Earth- 5.9 x 10^24 kg
  - Radius of Earth- 6.378 x 10^6 m and 6378 km
  - Mass of Sun- 1.989 x 10^30 kg
  - Radius of Sun- 696,340,000 m and 696,340 km

How to convert (for mass, radius and AU)

Examples:

Your planet is 0.1 AU from its star, find in km

0.1 AU (149, 597, 871 km) = 14,959,787 km

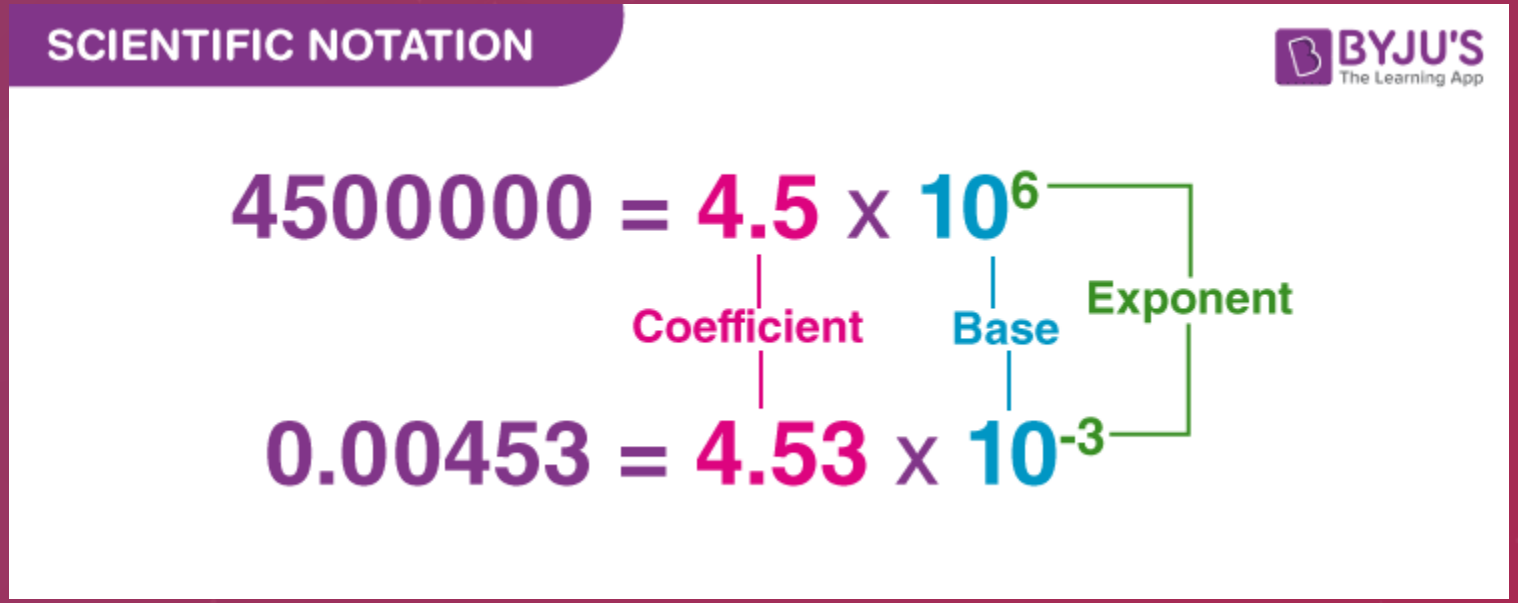
Your planet is 1.4 mass of Earth

1.4 (5.972 x 10^24 m) = 8.360 x10^24 kg

SHOW YOUR WORK ON YOUR PROFILE SHEET

Scientific Notation 101

https://www.youtube.com/watch?v=Wf-HlVqZPHY



Use the type of star (O, B, A, etc) when you research your star.

When you look up your star you probably won't be able to find this information!