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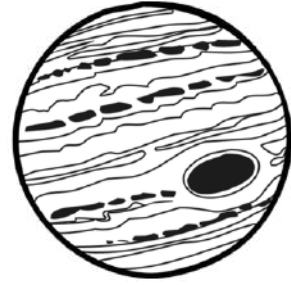
Class Period:



Plotting Density versus Diameter for Solar System Objects

Introduction

As the sun formed from the collection of gases, ices, and dust that made up solar nebula a lot of leftover material formed a disk of debris around it. Out debris other objects formed. These objects formed the rest of our solar system. They come in many different sizes, and are made of a great variety material so vary in density and other properties. You will be working with 13 these objects to learn more about the different types of objects found in our solar system.



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Materials

- Solar System Object Cards
- Density versus Diameter grid paper



Procedure

- Use the information for diameter and density provided on the cards to create a scatter-plot. As you plot the position of the objects on the grid provided, be sure to label each point with the object number.
- Make an attempt to sort the objects into 4 groups, based on their positions on the grid. Circle each set of objects that you consider part of the same group.

Questions

1. Which objects do you feel are the terrestrial planets? Why?
2. Which objects do you feel are the gas giants? Why?
3. Which objects do you feel are the ice giants? Why?
4. Which objects do you feel are the dwarf planets? Why?

Questions for further discussion

1. Why do you think that objects #4 and #5 are so far to the left of the others in the terrestrial planet group?
2. Why are the ice giants so different from the gas giants?