Outer Planets

Procedure

1. **Measure** For each measurement below, use a metric ruler to draw a line of that length on construction paper. Draw another line perpendicular to the first line. Connect the lines to make a circle, as shown in your book. Label each circle with the name of the planet it represents.

   - Jupiter 23 cm
   - Saturn 19 cm
   - Uranus 8.2 cm
   - Neptune 7.6 cm
   - Pluto 0.4 cm (4 mm)

2. **Use Models** Cut out and label each planet. Put the model planets in the order they are in the solar system, as listed. Record this data.

3. **Compare** Now put your model planets in order from smallest to largest. Record the data. Now put your model planets in order from largest to smallest. Record the data.

   Smallest to largest: ______________________________

   Largest to smallest: ______________________________
Conclusion

1. **Analyze Data** Compare your data. Which two sets of data are similar?

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2. **Infer** Refer to the data table on page 135. What can you infer about the general relationship between planet size and distance from the Sun?

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**Experiment**

**Predict** the masses of the planets based on their diameters. Then, use the Internet or the library to find the actual masses of the planets. **Compare** them to your predictions.

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