

<p align="center"> “Live... from McDonald Observatory!” Videoconference “Discover our Solar System: Make a Size Scale Model” Student activity sheet </p>	 <p align="center">McDonald Observatory</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------

Name: _____ Date: _____

Scale models are a way to represent something. Scale models can be used to show the size, the shape, or the distance of something. You could use a scale model to show something that is very small (like a very small bug) or something that is very big (like the solar system). Today you are going to make a scale model that shows the relative size (volume) and distance of two members of our solar system. You will have to guess (or estimate) which two objects you have represented.

Make 3 Guesses:

After you have made two Play-doh spheres, look closely at your model and make three guesses for what these objects might represent in the solar system.

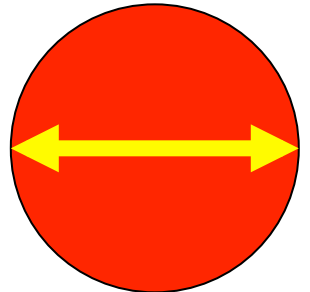
Guess #1: _____ and _____

Guess #2: _____ and _____

Guess #3: _____ and _____

Measure the diameter of the large sphere. Within your group determine the best way to measure the diameter (there may be more than one way to do this).

For Example: Diameter = 3.8 cm



Diameter of large sphere: _____ cm



Find the distance for 30 “large sphere” diameters:

Distance = 30 x diameter of large sphere = _____ cm

<p>“Live... from McDonald Observatory!” Videoconference “Discover our Solar System: Make a Size Scale Model” Student activity sheet</p>	 <p>McDonald Observatory</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------

Reflect and Discuss:

Use the space below to write down things that are the same and things that are different between the model your group made and the models made by other groups.

Similarities:

Differences: