Designing a	
Model Solar System	

Names		
	Date	
		Pariod

Materials: 1.5 meter length of adding machine tape, metric ruler, metric measuring tape, 2 small white beads, 2 peppercorns, 1 blue ball, 1 fishing bobber, 2 acrylic beads, 1 straight pin with white head. (Hint: the point of the pin can represent five solar system bodies.)

Expectations for working together:

- 1. Each person must write all information for at least three solar system bodies on the chart.
- 2. Remember: the objects are models, NOT toys. Do not play with them.
- 3. Discussion and conversation IS encouraged. Letting others do all the work, arguing, or being bossy is NOT encouraged. \odot
- 4. Remember to be inclusive ask others what they think too!

Directions for completing the lab:

- 1. Using the information on the back of this page, list the solar system bodies from closest to farthest from the Sun in the chart below. SPELLING COUNTS! Transfer this to the table below.
- 2. Decide and record which object will represent each solar system body.
- 3. Decide how far each solar system body will be from the Sun on your adding machine tape.
- 4. Label your model on the 1.5 meter length of adding machine tape.
- 5. Write your names on the <u>Sun end</u> of your model before turning it in!

MODEL SOLAR SYSTEM SIZES AND DISTANCES

SOLAR SYSTEM BODY	MODEL for Solar System Body	DISTANCE FROM SUN (cm)

Planetary Mnemonic:

My Very Exciting Magic Carpet Just Sailed Under Nine Pretty, Hay Munching Elephants

Solar System Bodies in Reverse Alphabetical Order:

Venus
Uranus
Saturn
Pluto
Neptune
Mercury
Mars
Makemake
Jupiter
Haumea
Eris
Earth
Ceres

Solar System Bodies from closest to farthest from the Sun:

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	