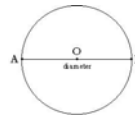


## MAKING A MODEL - TOGETHER

- Pick one of the three bodies to start the model
  - Sun, Earth, Moon
- Pick a size (diameter) for the one you want to start with
  - The Sun/Earth/Moon will be 0.XX meters (centimeters) across
- When you divide the actual diameter of the body by the size of the model you get the scale

$$\frac{\text{Diameter of Body}}{\text{Diameter of Model}} = \text{Scale}$$



## MAKING A MODEL - TOGETHER

- Multiply the Diameter of other Two Bodies by the Scale
  - $\text{Diameter of Body} \times \text{Scale} = \text{Diameter of Model}$
- Diameter of Earth = 12,756,200 m
- Diameter of Sun = 1,391,000,000 m
- Diameter of Moon = 3,474,800 m
- If your model of the Sun is too big, you can use string to make the model. The string will be the radius. (diameter divided by two)

