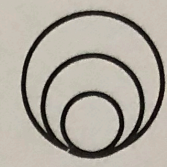
LEARNING TARGET: I CAN USE COMPUTATIONAL THINKING TO ANALYZE DATA TO DETERMINE SCALE, PROPORTION, AND PROPERTIES OF OBJECTS IN THE SOLAR SYSTEM.

- This means I can use data to identify properties of inner and outer planets.
- This means I can also use math to compare the size and distance of planets.

SCIENCE & ENGINEERING PRACTICE:
Analyzing and Interpreting Data

CROSSCUTTING CONCEPT:
Scale, Proportion, Quantity



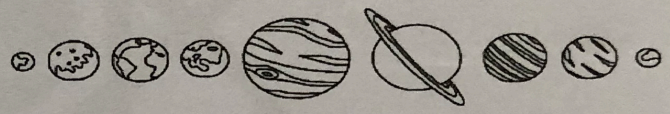
Essential Question:
What are the properties of the inner and outer planets?

ESSENTIAL QUESTION:
What are limitations of a solar system model when trying to show scale?

The limitations of a model are: distance, size.

distance → too far apart
size → size of planets

Inner Planets	Outer Planets
Closer to the Sun Warmer Tempetures Smaller planets Mostly made of rocks Inside the asteroid belt	Farther away from the Sun Colder Tempetures Larger Planets Have many moons Mostly made of gas



YOUR LEVEL OF UNDERSTANDING

1	2	3	4

DEMONSTRATION OF LEARNING

1	2	3	4

VOCABULARY:

astronomical unit	elliptical	lunar eclipse ✓	phases ✓	satellite ✓
axis ✓	gravity ✓	mass ✓	planet ✓	scale ✓
counterclockwise ✓	inertia ✓	orbit ✓	properties	solar eclipse ✓
cyclic ✓	kilometer (km) ✓	orbital motion ✓	revolution ✓	solar system ✓
dwarf planet ✓	light year ✓	orbital radius ✓	rotation ✓	telescope ✓

REFLECTION