Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_

Sun, Earth, Moon Relationship Lab <https://www.youtube.com/watch?time_continue=39&v=_QcgDiF1a14> (39 seconds)

**Background:** An observation is information gathered by using your senses: see, hear, taste, etc. An inference is a conclusion based on the observation. It can include evidence (facts or information) to support a claim (a statement that does have evidence or proof).

**Prelab- define or answer the following. Get teacher initials before moving on.**

1. (2 pt) Define & draw a picture of Earth’s axis, include the numbers of degrees of Earth’s tilt.
2. (1 pt) Define & draw a picture of rotate (or rotation).
3. (1 pt) Define & draw a picture of revolve:
4. (1 pt) Define & draw a picture of orbit.
5. (5 pt) View the 39 second video with your team: <https://www.youtube.com/watch?time_continue=39&v=_QcgDiF1a14>

Make 5 OBSERVATIONS:

*
*
*
*
*

Make 5 INFERENCES:

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*
*
*
*

TEACHER INITIALS FOR PRELAB HERE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ up to 10 pts here

Class discussion to make 3 claims. Claims will be put on the board.

Procedure:

1. Make a plan to create a paper model to support the claims. You have the following materials: plain and colored paper, scissors, marking supplies (pencils, colored pencils, crayons, markers, etc.). Other supplies can be requested & if available may be arranged for your team. Write out your plan, call teacher over to discuss & get initials here:

TEACHER INITIALS FOR PLAN HERE: \_\_\_\_\_\_\_\_\_\_ up to 5 pts here

1. Create your model.
2. Each team will be called to support one of the claims chosen by the teacher to support one of the claims. Each team member must speak during the presentation. The following words must be used somewhere in the presentation:
* Axis
* Rotate
* Revolve
* Orbit
* Sphere

Rubric for this lab:

* PRELAB \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/10

* PLAN \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/5
* MODEL \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/10
* PRESENTATION (ALL WORDS) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/5
* PRESENTATION MODEL USED WELL \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/5
* PRESENTATION CLAIM SUPPORTED \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/10

TOTAL POSSIBLE POINTS \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/45