

Gravity & the Earth-Sun-Moon System

Also Part 2 of the lesson worksheet.

Name: _____

Date: _____

EXPECTATIONS

5 min silent + 2 min share

1. Answer in Part 2 of the lesson worksheet (or on this sheet).
2. Number each answer to match the question.
3. Answer in complete sentences. For math, show your work.
4. Work silently for 5 minutes, then share with a partner for 2 minutes.
5. Be ready to share one answer with the class.

WARM-UP QUESTIONS

1. What force makes a dropped ball fall to the ground?

2. How long does it take the Moon to go through all of its phases?

3. Have you ever seen the ocean or a big lake with high and low water? What do you think causes tides?

Today's target: I can use a model of the Earth-Sun-Moon system to explain phases, eclipses, tides, and seasons, and explain how gravity keeps objects in orbit.

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What to look for in student answers.

#	Question	Look for
1	What force makes a dropped ball fall to the ground?	Gravity.
2	How long does it take the Moon to go through all of its phases?	About 29.5 days (about a month).
3	Have you ever seen the ocean or a big lake with high and low water? What do you think causes tides?	Tides are caused mostly by the Moon's gravity pulling on Earth's oceans.

Use the warm-up to activate prior knowledge. Call on 2-3 students, and write one strong answer on the board as a model. Question 3 previews today's lesson, so do not correct it yet; come back to it in the debrief.