Disciplinary Core Ideas

ESS1.A: The Universe and Its Stars

Earth and its solar system are part of the Milky Way galaxy, which is one of many galaxies in the universe.

ESS1.B: Earth and the Solar System

- The solar system consists of the sun and a collection of objects, including planets, their moons, and asteroids that are held in orbit around the sun by its gravitational pull on them.
- The solar system appears to have formed from a disk of dust and gas, drawn together by gravity.

Plan for the day:

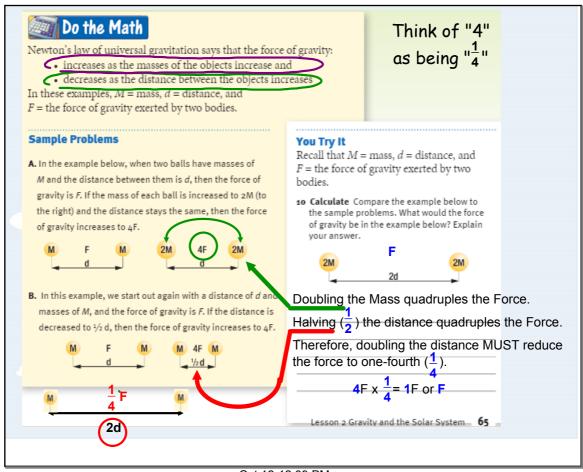
00) OVERDUE: Gas Giants Foldable (WHITE LATE MORIN BIN)

0) TURN IN: your choice, #10 or #17 (WHITE LATE MORIN BIN)

Last lesson, assigned as "HOMEWORK - DUE NEXT CLASS"

- 1a) CHECK Lesson 2: Gravity and the Solar System, pages 60-72, questions 1-21, AND
- 1b) CHECK Lesson Review, questions 1-9; Describe, Explain, Analyze and Explain questions require multiple sentence answers.
- 2) Quick-Lab: HANDOUT (Think about Kepler's Laws, pages 63-64)
- 3) Video clips of the big bang, etc., if time permits.

Sep 25-6:22 AM



OPEN your text to Lesson 2 Gravity in the Solar System so that I may check your work for completion.

QUICK LAB

COMPLETE Quick-Lab using the materials shown in diagram on page 63 and in the lab. These materials are already in a container on the student table. (I MAY decide to change this task to a product grade)

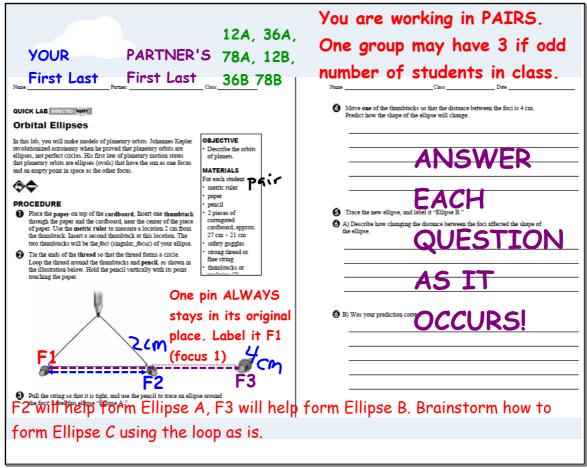
Blue/Green pins, Tables 3 & 4.

Red/Yellow pins, Tables 1, 2, 5 & 6.

SAFETY: Anyone who uses the PUSH PINS for anything BUT the intended purpose will result DIRECTLY in a referral. Warnings and Citations will NOT be given.

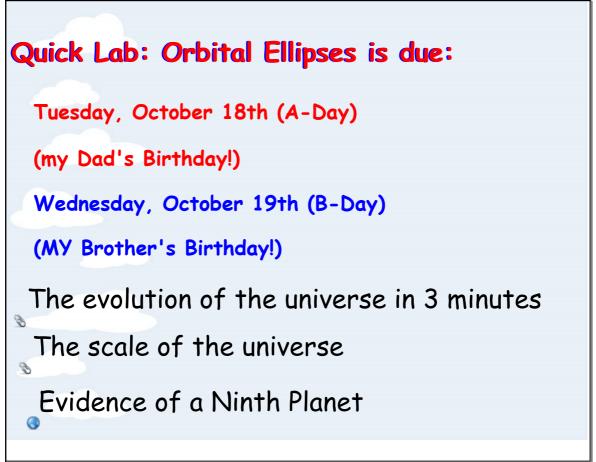
Once your group has finished the three ellipses, RETURN the container with ALL of its materials to the STUDENT TABLE.

Sep 30-3:12 PM



You do NOT need to fill in every line! Use only the space	
necessary for your response. Complete ALL questions.	
Name Class Date	Name Date
A) Describe how you would change this setup to create a perfect circle. Change the setup and test your ideas. Label this ellipse "Ellipse C."	Earth's orbit has an eccentricity of about 0.01. Pluto's orbit has an eccentricity of about 0.24, and the orbit of Halley's comet has an eccentricity of about 0.95. Which of the ellipses you drew most closely matches each of these orbits?
ANSWER	
FACH	
B) Were your ideas correct?	
QUES	The but is given focus of Earth's orbit. If Earth's orbit has a very small conficing where is the other focus of Earth's orbit? Explain your answer. Think about what the first push pin represents in terms of "focus.". That should help you
Eccentricity is a measure of bear stuch the shape of an ellipse differs from the shape of a perfect circle.	think about what the second push pin represents.
The eccentricity of an ellipse is equal to the distance between its foci divided by the maximum width of the ellipse. Calculate the eccentricity of each of your ellipses, and record it below.	IRS!
Ellipse A 2cm/(749) 2cm = 0.125)	
Ellipse B	
Ellipse C	

Sep 30-3:12 PM



ALL LATE WORK

- 1) Gas Giant Foldable
- 2) Question 10 or 17 (Small Bodies in the Solar System)

DUE BY THURSDAY, 20 October!

Oct 17-8:39 AM

Attachments



Scale of Earth and Sun.mp4



Scale of Solar System.mp4



The evolution of the universe in 3 minutes.mp4



The scale of the universe.mp4