

Name _____ Date _____ Hour _____

Purple Gravity and Orbits Stations- PHet Gravity and Orbits Simulation

Content Objective: Students will discover how gravity affects the orbits of the moon, Earth and satellites

Writing Language Objective: students will explore and analyze a gravity simulation

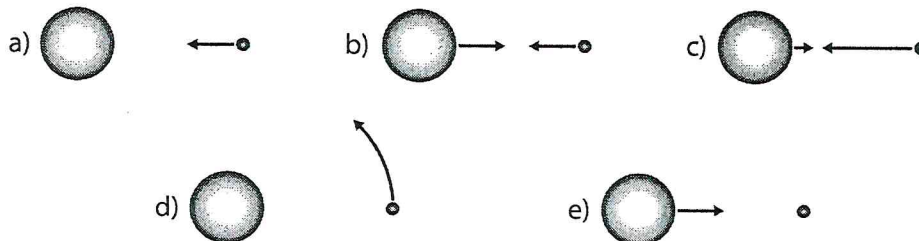
Directions:

Complete the following questions with your table and table partner

Part 1: Pre-Simulation Questions

1. Choose the picture you think shows the gravity forces on Earth and the Sun.

(a longer arrow represents a bigger force, and a shorter arrow represents a smaller force)



2. How would these gravity forces change if the Sun got much bigger? (circle one)

Increase

Stay the same

Decrease

3. How would these gravity forces change if the Earth was much closer to the Sun? (circle one)

Increase

Stay the same

Decrease

4. How would these gravity forces change if the Earth got much smaller? (circle one)

Increase

Stay the same

Decrease

5. Choose the picture of how the Earth would move if you "turned off" the gravity forces.

