IID:	Name:	Date:	Class:

#### Gravity and Orbits Lab - LAB ACTIVITY SHEET

#### Learning Objectives- You will be able to:

- Draw motion of planets, Moons and satellites.
- Draw diagrams to show how gravity is the force that controls the motion of our solar system.
- Identify the variables that affect the strength of the gravity.
- Predict how motion would change if gravity was stronger or weaker.

#### Part 1: Understanding motion

1. Open the Gravity and Orbits simulation. http://tinyurl.com/PHETorbit

Take a few minutes to <u>PLAY & explore</u> how the Earth, Moon, and the Space Station move. Talk about what you find with your group.

with You Broup.			
GROUP DISCUSSION: What controls have you found? What do they do?	• (		
	• (		
	•	© •	
	•	<b>(4)</b>	-

Compare the motion of the Earth moving around the Sun with the Moon moving around the Earth.

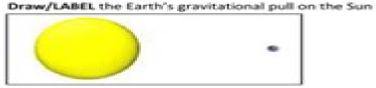
Earth moves around the Sun Your Picture	Moon moves around the Earth Your Picture	
Your Description	Your Description	
What are some things you find that are similar.	about these motions?	
<ul> <li>b. What are some things you find that are different</li> </ul>	it about these motions?	

3. Based on your observations, how would you define the word "orbit"? Cite evidence!

#### Part 2: Understanding Gravity For the Sun and Earth system:

4. Draw/LABEL the Sun's gravitational pull on the Earth





# **Gravity And Orbits Lab Activity Answers**

Michael Rajnik

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