Name:	Period:
Gravity Force Simulation	
<b>Directions</b> : Use the "Gravity Force Simulation" to explore grabelow:	avity. Record some <b>observations</b>
Identify <b>two</b> ways you can change the amount of force (gravit could you <b>increase</b> gravitational force using each factor? How gravitational force using each factor?	
One factor is	
A second factor is	
Complete the chart for each scenario below.	

Complete the chart for each sechano below.							
Mass of 1	Location of 1	Mass of 2	Location of 2	Force (1 on 2)	Force (2 on 1)		
25 kg	3 m	25 kg	7 m				
25 kg	1 m	25 kg	9 m				
100 kg	1 m	100 kg	9 m				
100 kg	1 m	1 kg	9 m				

Summarize: Determine whether each statement about gravity is true or false.
The force of gravity increases as objects move closer together.
The force of gravity increases as an object's mass increases.
If two objects have different masses, the more massive object pulls with a greater force.
Apply: The earth's gravity is pulling on you. Are you pulling on the earth? Explain your reasoning.
Gravity is a force of attraction between objects based on their mass and their distance apart. Why aren't other objects, like your pencil, being pulled towards you? Explain your reasoning.