

Name _____

Date _____

Hack The Solar System- Mass

Predictions: What do you think will happen when you decrease the mass of a planet? When you increase the mass of a planet?

Planet	Real Mass	Changed Mass	Observations
Jupiter	$1.898 \times 10^{27} \text{ kg}$	$3.5 \times 10^{27} \text{ kg}$	Describe what happens in the simulation

Analyze: What happened when you increased the mass of Jupiter? What happened when you increased the mass of a different planet?

Hypothesis: Based on the Universal Law of Gravitation, formulate a hypothesis about why the outcomes were what they were.
