

The Pull of the Planets

Test the gravitational pull of different sizes and densities of "planets."

<p>Choose the words that best describe the "planet's" properties (circle two):</p>	<p>Predict! Describe how you think the marbles will move when they are dropped onto the sheet:</p>	<p>Choose the words that best describe this "planet's" gravitational pull (circle one):</p>
<p>2" Play-Doh ball:</p> <p>Dense Not dense</p> <p>Large Small</p>		<p>Strong Weak</p>
<p>1/4" Play-Doh ball:</p> <p>Dense Not dense</p> <p>Large Small</p>		<p>Strong Weak</p>
<p>2" Styrofoam ball:</p> <p>Dense Not dense</p> <p>Large Small</p>		<p>Strong Weak</p>

Imagine sheets large enough to hold Jupiter, Earth, and the Moon. In the space below, **draw** how you think they would each bend a sheet. **Describe** each object's size and mass and **choose** whether it has a strong, medium, or weak gravitational pull.

Home Sweet Planet: Rocky, Dense Earth

Earth has a (circle one)
large / medium / small size and mass.

Earth has a (circle one)
strong / medium / weak
gravitational pull.

Our Little — but Rocky! — Moon

Our Moon has a (circle one)
large / medium / small size and mass.

Our Moon has a (circle one)
strong / medium / weak
gravitational pull.

Giant, Gaseous Jupiter

Jupiter has a (circle one)
large / medium / small size and mass.

Jupiter has a (circle one)
strong / medium / weak gravitational pull.