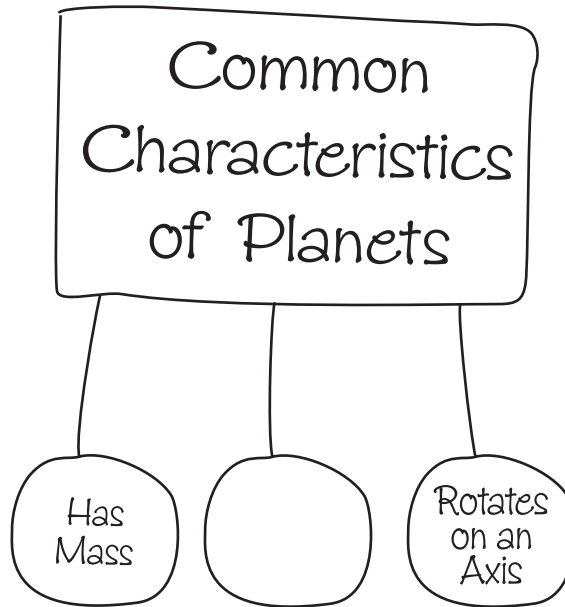


### **BENCHMARK SC.5.E.5.3**

<b>Reporting Category</b>	Earth and Space Science
<b>Standard</b>	<b>Big Idea 5</b> Earth in Space and Time
<b>Benchmark</b>	<b>SC.5.E.5.3 Distinguish among the following objects of the Solar System—Sun, planets, moons, asteroids, comets—and identify Earth’s position in it. (Also assesses SC.5.E.5.2.)</b>
<b>Also Assesses</b>	<b>SC.5.E.5.2</b> Recognize the major common characteristics of all planets and compare/contrast the properties of inner and outer planets.
<b>Benchmark Clarifications</b>	<p>Students will distinguish among objects in our solar system based on their relative positions and/or their characteristics.</p> <p>Students will identify common characteristics of all planets.</p> <p>Students will compare and/or contrast the common characteristics of inner and outer planet groups.</p>
<b>Content Limits</b>	<p>Items will address a conceptual understanding of our solar system and the characteristics of objects in our solar system.</p> <p>Items will not assess characteristics of the Sun.</p> <p>Items assessing inner and outer planet groups are limited to: surface composition (whether they are mostly solid or gas), presence of an atmosphere, size, relative position to the Sun, presence of moons or rings, relative temperature, and relative length of a year.</p> <p>Items will not require specific knowledge of quantitative astronomical data.</p> <p>Items will not assess interactions of objects in our solar system.</p> <p>Items will not assess the force of gravity.</p>
<b>Stimulus Attributes</b>	None specified
<b>Response Attributes</b>	None specified
<b>Prior Knowledge</b>	This benchmark grouping is foundational. These concepts have not been introduced in the NGSSS prior to this grade band.

**Sample Item 5****SC.5.E.5.2**

Jacob started creating a diagram to show some of the common characteristics of the planets in our solar system.



Which characteristic should Jacob write in the empty circle of the diagram?

- A. Made Mostly of Gas
- B. Has a Rocky Surface
- ★ C. Revolves around a Star
- D. Is a Satellite of Another Planet