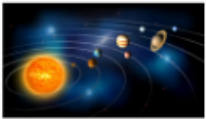


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Crash Course Astronomy #7: The Gravity of the Situation

Name: _____ Date: _____

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- Most of the Universe is pretty empty, which is why we call it "_____."
- The force that causes objects to fall back to Earth instead of continuing in a straight line is called _____.
- Gravity gets weaker with _____ from the object.
- _____ is how much stuff makes up an object.
- _____ is how much mass is inside a given volume.
- An object with more mass is harder to get moving because mass resists changes in _____.
- The force of gravity depends on the mass of two objects and the _____ between them.
- Gravity is always _____, meaning it only pulls objects together.
- The longer a force acts on an object, the more its _____ changes.
- When an object is free to move under gravity alone, it is said to be in _____.
- A circular orbit occurs when an object falls toward Earth but always _____ it.
- The shape of planetary orbits around the Sun, as discovered by Kepler, is an _____.
- The speed at which an object must travel to escape a planet's gravity is called the _____.
- In freefall, an object has no _____ because there is no surface pushing back on it.
- Even though photons have no mass, they can still be affected by gravity because gravity can _____ space.

Crash Course Astronomy #7: The Gravity of the Situation KEY

- Most of the Universe is pretty empty, which is why we call it "space."
- The force that causes objects to fall back to Earth instead of continuing in a straight line is called "gravity."
- Gravity gets weaker with "distance" from the object.
- "Mass" is how much stuff makes up an object.
- "Density" is how much mass is inside a given volume.
- An object with more mass is harder to get moving because mass resists changes in "motion."
- The force of gravity depends on the mass of two objects and the "distance" between them.
- Gravity is always "attractive," meaning it only pulls objects together.
- The longer a force acts on an object, the more its "velocity" changes.
- When an object is free to move under gravity alone, it is said to be in "orbit."
- A circular orbit occurs when an object falls toward Earth but always "misses" it.
- The shape of planetary orbits around the Sun, as discovered by Kepler, is an "ellipse."
- The speed at which an object must travel to escape a planet's gravity is called the "escape velocity."
- In freefall, an object has no "weight" because there is no surface pushing back on it.
- Even though photons have no mass, they can still be affected by gravity because gravity can "warp" space.

15 Questions

Answer Key Included

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