

What is Gravity

Cross-Curricular Focus: Physical Science



You may have seen pictures of astronauts. They float around in space. They fly in a space shuttle. Have you ever wondered why they float? Your feet stay firmly on the ground. Why don't theirs? When you drop something, why does it fall? The answer to these questions is something called **gravity**. It **affects** everything we do.

Many years ago, a man named Sir Isaac Newton wondered about gravity, too. He watched and tested the way things move and fall on Earth. He wrote his ideas down. Scientists today use a lot of his ideas. Those ideas are now considered laws of science.

Gravity is a force that makes all objects attracted to each other. The bigger the object is, the more it attracts things. Since nothing on Earth is bigger than planet Earth itself, all the things and people on Earth are attracted by Earth. Everything is pulled toward the center of the planet. That is why things fall to the ground. It is also why people and things stay on the ground instead of floating around in space. Earth is even large enough to attract our moon. That's why we can see it in our sky!

Name: _____

Answer the following questions based on the reading passage. Don't forget to go back to the passage whenever necessary to find or confirm your answers.

1) Why do your feet stay on the ground instead of floating?

2) Who was the scientist who did experiments with gravity and motion many years ago?

3) Why are things and people attracted to Earth?

4) What can we see in the sky because of gravity?

5) What would it be like if there were no gravity on Earth?

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Name: **Key**

Answer the following questions based on the reading passage. Don't forget to go back to the passage whenever necessary to find or confirm your answers.

Actual correct answers will vary.

1) Why do your feet stay on the ground instead of floating?

My feet are attracted to the Earth because of gravity.

2) Who was the scientist who did experiments with gravity and motion many years ago?

Sir Isaac Newton

3) Why are things and people attracted to Earth?

Because the Earth is bigger than we are and gravity makes things attracted to the bigger object.

4) What can we see in the sky because of gravity?

the moon

5) What would it be like if there were no gravity on Earth?

The Earth would be empty because everything would float away into space.