

Name: _____ Date: _____ 4th _____

Newton and Gravity



Isaac Newton was an English scientist and mathematician. He made many discoveries in his lifetime. One of the most important was the law of gravity. Newton was born in 1643 in Lincolnshire - England. He worked hard at school and was accepted to study at Cambridge University. He worked there for many years, but in 1665.

While Newton was in the garden, he saw an apple falling from a tree, so Newton thought about the way it fell. Years later, he told his friend William that he wondered why the apple fell rather than sideways or upwards. He concluded there must be a 'drawing power' in the center

of the Earth

Newton spent a lot of time thinking about the force of gravity, and how it pulls objects down towards the center of the Earth. He was particularly interested in the way the Moon orbits the Earth, and he reasoned that gravity must extend over vast distances, pulling the Moon towards the Earth and keeping it in orbit.



In 1687, Newton published his discoveries about gravity in his famous book, *The Principia*. His findings are known today as Newton's Law of Universal Attraction.

Newton died in 1727, but his legacy lives on. All forces are measured in newtons (N), using a newton meter.



Today, the apple tree that inspired Newton's ideas still grows in the gardens. It Can be seen from the window of the room that was Isaac Newton's bedroom.

Read and answer the questions.

1. When was Isaac Newton born? _____
2. In which university Did Isaac Newton Study? _____
3. What fruit did Newton see falling from a tree? _____
4. What was the most important discovery of Isaac Newton? _____
5. In which direction does gravity pull objects? _____
6. What was the name of the Book that Isaac Newton publish? _____
7. All forces are measured in _____
8. When did Isaac Newton die? _____
9. What was the name of Isaac Newton's friend? _____
10. The apple tree is alive these days? _____