

Name _____

Why Do Objects of Different Masses Fall at the Same Rate in a Vacuum?

Short Answer

1. Explain the concept of gravity and its role in making objects fall.
2. Describe Galileo Galilei's famous experiment and its significance.
3. Why do heavier objects experience a greater gravitational force but fall at the same rate as lighter objects in a vacuum?
4. How does air resistance affect the motion of falling objects on Earth?
5. What does Newton's second law of motion ($F = ma$) describe, and how does it relate to the concept of gravity?

