

Name _____

Forces That Shape the Universe

Multiple Choice Questions

1. Which fundamental force is responsible for the attraction of objects with mass?
 - a) Electromagnetism
 - b) Strong nuclear force
 - c) Weak nuclear force
 - d) Gravity

2. What fundamental force holds electrons in orbit around atomic nuclei?
 - a) Weak nuclear force
 - b) Electromagnetism
 - c) Gravity
 - d) Strong nuclear force

3. Which force is responsible for binding protons and neutrons within atomic nuclei?
 - a) Electromagnetism
 - b) Weak nuclear force
 - c) Gravity
 - d) Strong nuclear force

4. What is the role of the weak nuclear force in the life cycle of stars?
 - a) It causes nuclear decay in stars.
 - b) It powers electromagnetic interactions.
 - c) It provides the force of attraction between objects.
 - d) It governs the formation of galaxies.

5. What is the aspiration of scientists in their quest to understand the fundamental forces?
 - a) Discover new fundamental forces
 - b) Develop advanced technology
 - c) Create energy sources
 - d) Find a Grand Unified Theory (GUT)

