

Chapter 12 Forces and Motion

Section 12.4 Universal Forces**(pages 378–382)**

This section defines four forces that exist throughout the universe. Each force is described and its significance is discussed.

Reading Strategy (page 378)

Comparing and Contrasting As you read this section, compare two universal forces by completing the table. For more information on this Reading Strategy, see the *Reading and Study Skills* in the *Skills and Reference Handbook* at the end of your textbook.

| Universal Nuclear Forces | | | |
|--------------------------|--------------------------|--------------------------|-------------------|
| Force | Acts on Which Particles? | Acts Over What Distance? | Relative Strength |
| Strong nuclear | | | |
| Weak nuclear | | | |

1. What are the four universal forces?

- a. _____ b. _____
c. _____ d. _____

Electromagnetic Forces (pages 378–379)

2. Is the following sentence true or false? Electromagnetic force is associated with charged particles. _____

3. Name the only two forces that can both attract and repel: _____

4. Objects with like charges _____ one another, and objects with opposite charges _____ one another.

5. Circle the letters of the sentences that correctly describe magnetic or magnetic forces.

- a. Magnetic forces act on certain metals.
b. Magnets have two poles, north and south.
c. Two poles that are alike attract each other.
d. Magnetic forces can both attract and repel.

Nuclear Forces (pages 379–380)

6. The force that holds particles in the nucleus together is the _____.

7. What evidence suggests that nuclear forces have a powerful force of attraction? _____

Section 12 4 Universal Forces Key

Jiyuan Zhang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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