

## 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? \_\_\_\_\_

# Physical Science Section 12 4 Universal Forces Answer Key

**KJ Lindholm-Leary**



## Physical Science Section 12 4 Universal Forces Answer Key:

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**COLLEGE PRECEPTORS.** c.f hodgson and sons,2, gough square,1880      *Harper's Weekly* John Bonner,George William Curtis,Henry Mills Alden,Samuel Stillman Conant,Montgomery Schuyler,John Foord,Richard Harding Davis,Carl Schurz,Henry Loomis Nelson,John Kendrick Bangs,George Brinton McClellan Harvey,Norman Hapgood,1873      LIFE,1949-05-16 LIFE Magazine is the treasured photographic magazine that chronicled the 20th Century It now lives on at LIFE com the largest most amazing collection of professional photography on the internet Users can browse search and view photos of today s people and events They have free access to share print and post images for personal use      *English Mechanic and World of Science* ,1899      **The Literary Gazette and Journal of Belles Lettres, Arts, Sciences, &c** ,1835  
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