

CHAPTER 1 REVIEW*Matter and Change***SECTION 1****SHORT ANSWER** Answer the following questions in the space provided.

1. a Technological development of a chemical product often
- (a) lags behind basic research on the same substance.
 - (b) does not involve chance discoveries.
 - (c) is driven by curiosity.
 - (d) is done for the sake of learning something new.

2. d The primary motivation behind basic research is to
- (a) develop new products.
 - (b) make money.
 - (c) understand an environmental problem.
 - (d) gain knowledge.

3. a Applied research is designed to
- (a) solve a particular problem.
 - (b) satisfy curiosity.
 - (c) gain knowledge.
 - (d) learn for the sake of learning.

4. b Chemistry is usually classified as
- (a) a biological science.
 - (b) a physical science.
 - (c) a social science.
 - (d) a computer science.

5. Define the six major branches of chemistry.

organic chemistry—the study of carbon-containing compounds

inorganic chemistry—the study of non-organic substances

physical chemistry—the study of properties of matter, changes that occur in matter, and the relationships between matter and energy

analytical chemistry—the identification of the composition of materials

biochemistry—the study of the chemistry of living things

theoretical chemistry—the use of mathematics and computers to design and predict the properties of new compounds

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