

Chapter 3 Assessment

Vocabulary

Select the correct term to complete the sentences.

kilogram	gram	atom
element	compound	system
energy	Calorie	newton
heat	thermometer	Fahrenheit
Celsius	force	conservation of energy

Section 3.1

1. The basic SI unit of mass, approximately equal to 1000 grains of rice, is the ____.
2. A pure substance that cannot be broken down into other substances is known as a(n) ____.
3. A combination of elements that most often has properties different than the elements from which it is made is called a(n) ____.
4. The smallest particle of matter which retains the identity of the element it comes from is called a(n) ____.
5. An amount of mass equal to one-thousandth of a kilogram is a(n) ____.

Section 3.2

6. A small group of related things that work together may be called a ____.
7. A quantity that measures the ability to cause change in a physical system in units of joules is known as ____.
8. A unit of energy larger than a joule used to measure the energy available in food is the ____.
9. An SI unit used to measure force, equal to less than one-quarter of a pound, is the ____.

10. A natural law that says energy cannot be created or destroyed is the law of ____.
11. An action, measured in newtons, that has the ability to transfer energy or change motion is called a(n) ____.
12. A(n) ____ is an instrument used to measure temperature.
13. The temperature scale on which the freezing point of water is 32 degrees and boiling point of water is 212 degrees is the ____ scale.
14. The temperature scale on which the freezing point of water is 0 degrees and boiling point of water is 100 degrees is the ____ scale.
15. When thermal energy flows from hot to cold it is called ____.

Concepts

Section 3.1

1. Scientists find it useful to use both grams and kilograms for measuring mass. Why is it necessary to have two different SI units of mass?
2. Mass describes:
 - a. an object's size.
 - b. the amount of matter in an object.
 - c. the type of elements in an object.
3. What laboratory instrument is most often used to measure mass?
4. Identify the following substances as an element or a compound:
 - a. ____ table salt (sodium chloride)
 - b. ____ oxygen gas
 - c. ____ rust
 - d. ____ iron

Answers To Aventa Physical Science

**Theodore G. Phillips, William Haskel
Colburn**

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