

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

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

Section 3.2

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

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

Concepts

Section 3.1

- 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?
- Mass describes:
 - an object's size.
 - the amount of matter in an object.
 - the type of elements in an object.
- What laboratory instrument is most often used to measure mass?
- Identify the following substances as an *element* or a *compound*:
 - ____ table salt (sodium chloride)
 - ____ oxygen gas.
 - ____ rust
 - ____ iron

Answers To Aventa Physical Science

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



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