

M01 Game Day

Friday, July 16, 2010

7:20 AM


Slide

Notes



Team





atoms/molecules	measurement/units

Place a mark to show it is used.

While looking at historical grave markers, you find a statuette that is blue-green in color. In order to read the inscription, you scrub the surface of the statuette, and a blue-green color comes off as a fine powder. What color is the statue underneath?

Atoms/Molecules

Choose one answer.

- a. Blue-green
- b. red rust
- c. a copper color ✓
- d. black

Sulfur is a yellow powder that is composed of sulfur atoms. Sulfur dioxide is a colorless, poisonous gas that contains sulfur atoms. Is sulfur dioxide an atom or molecule?

Choose one answer.

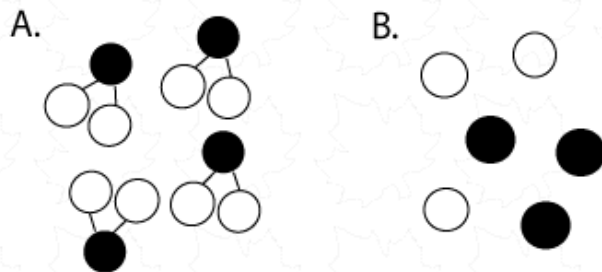
- a. atom
- b. molecule ✓

hydrogen	atom ▼
The smallest stable unit of matter	atom ▼
Water	molecule ▼
Two or more atoms linked together to make a substance with a new unique set of properties compared to the original atoms.	molecule ▼

Ammonia is the active ingredient in many household cleaners. Suppose I were to make up two buckets of cleaner. In the first, I will take 5 cups of ammonia and add to that 45 cups of water. In the second, I will take 5 cups of ammonia and add 30 cups of water. Which bucket contains the most powerful cleaner?

- Choose one answer.
- a. first bucket
 - b. second bucket ✓

Which image represents a bunch of molecules?



- Choose one answer.
- a. A ✓
 - b. B

An object's volume is 0.12 kL. What is its volume in liters?

- Choose one answer.
- a. 12000 L
 - b. 1200 L
 - c. 120 L ✓
 - d. 1.2 L

A rock has a mass of 45.1 kg. What is its mass in slugs? (1 slug = 14.59 kg)

- Choose one answer.
- a. 658.009 slugs
 - b. 3.09 slugs ✓

You are reading a scientist's notes and you notice a measurement that is listed as "12.3 kilograms." What does this measurement represent?

- Choose one answer.
- a. mass ✓
 - b. length
 - c. volume

What metric prefix means "1,000"?

- Choose one answer.
- a. centi
 - b. deca
 - c. mili
 - d. kilo ✓

Measurement/Units

How many centimeters are in 1.6 meters?

Choose one answer.

- a. 160 cm ✓
- b. 1.6 cm
- c. 16 cm