

Name: _____

Notes

Date: _____

3/14/19



GENIUSCHALLENGE

PROPERTIES OF MATTER

1. Why does a balloon filled with AIR weigh more than an empty balloon?

The balloon filled with Air weighs more because it contains matter. Air has mass.

2. Which of these is matter?

a. Energy

b. Air

c. Peace

d. Love

3. Which property did Zoe use to tell Sodium and Iron apart? Magnets / Magnetism

4. Name a substance that is less dense than air. Helium - (He) is an element

5. What property did the team use to tell the two gases apart?

The physical property of density

6. True or false: the team identified the clear liquids using the property of magnetism.

False - Property of solubility

7. What is it called when something dissolves into something else?

a. liquidity

b. density

c. viscosity

d. solubility

8. What causes the Styrofoam to disappear into the acetone?

Acetone softens the plastic + releases the air. Solubility

9. What ingredient gave Charlotte's slime magnetic properties?

iron powder

10. What property makes a metal pot good for cooking?

conducts heat well / metal is a good conductor of heat

11. Why is it important to know the properties of matter?

To be able to identify substances that are unknown.

Real World Applications

Physical Properties : magnetism, texture, conductor, shape, color, density.
State of matter (solid, liquid, gas)

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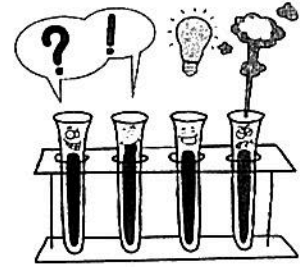
Chapter 1 Introduction to Matter

Aim: I can describe properties of matter.

Notes:

Chemistry:

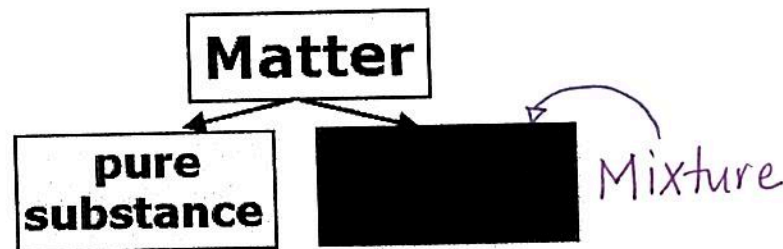
- The study of matter and how it changes.



Matter:

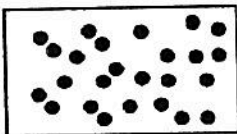
- Anything that has mass and takes up space.
- Can have many different properties.
- Is made up of atoms.
- Can be a pure substance or a mixture.

Matter Classifications:

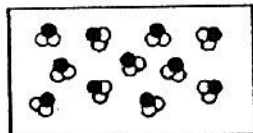


Pure Substance:

- A single kind of matter that is pure, meaning it always has a specific makeup, or composition.
 - Examples:



- Element:** A substance that cannot be broken down into any other substance. Are made up of atoms. Atoms of most elements can combine with other atoms to form a molecule/compound.



- Molecules/Compound:** A substance made up of two or more elements that are chemically combined in a set ratio.

∞ - molecule (same element combined)

⊗ - compound (two different elements combined)

