

Win Dr. Potts's Candy!

What are the 3 states of matter?

1. Solid
2. Liquid
3. Gas

At low temperatures, most compounds exist in the solid state.

What are the 2 types of mixtures?

- Homogenous: **completely uniform throughout**

- Heterogeneous: **a mixture that is not uniform throughout (blood, milk)**

- What is the equation for density (d)?

$$d = \frac{m}{V}$$

- What are the three temperature scales?

1. Fahrenheit
2. Celsius
3. Kelvin

What do the following prefixes represent?

- | | |
|----------|--------------|
| a. centi | a. 10^{-2} |
| b. milli | b. 10^{-3} |
| c. kilo | c. 10^3 |
| d. nano | d. 10^{-9} |

- What is difference between precision and accuracy?

Precision of a measurements indicates how close they are together. Accuracy of the measurements indicates how close they are to the correct answer.

(Accuracy = Answer)

- What is percent error?

$$\text{Percent Error} = \frac{|\text{Experimental Value} - \text{Accepted Value}|}{\text{Accepted Value}} \times 100$$

How many significant figures in the following numbers?

- | | |
|------------|------|
| 1. 1.23 | 1. 3 |
| 2. 0.00123 | 2. 3 |
| 3. 1230 | 3. 3 |
| 4. 123. | 4. 3 |
| 5. 1.230 | 5. 4 |

- What is the law of conservation of matter?
Matter cannot be created or destroyed.

- Famous phrase about charges?
Opposites attract.

- What are the smaller divisions of atoms?
Protons, neutrons and electrons

- Atoms with the same atomic number, but different mass numbers are called isotopes.


