CHEM 1020 SI

Jan. 27th

Agenda:

Spotify playlist (write any ideas on the board)

Worksheet

Fun Chemistry Trivia

Questions:

1. A picture containing clipart

   Description automatically generatedChart, bubble chart

   Description automatically generatedClassification of Matter: determine if each picture or word is an element, compound, or mixture.

Saline Solution

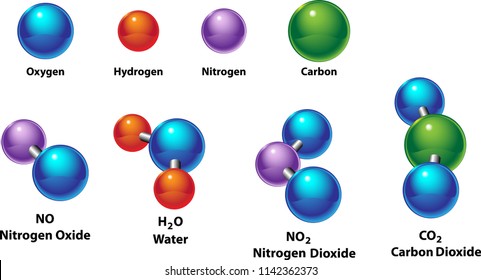
Element Mixture Mixture



Contains 2 or more substances

Contains 1 type of atom

Mixture Compound Element

Chart, bubble chart

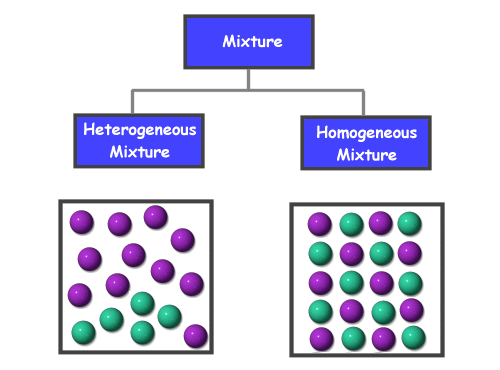
Description automatically generated Element Compound

Elements

Compounds

Is a pure substance (hint: there are two)

1. Heterogenous or Homogenous? Look at each picture or word and determine if the mixture is homogenous or heterogenous mixture.

A cup of coffee

Description automatically generated with medium confidence

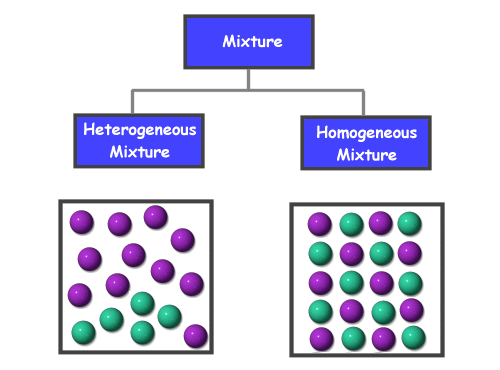
A picture containing colorful, different, arranged, several

Description automatically generated

Homogenous Heterogenous

A bottle of liquid

Description automatically generated with low confidence Heterogenous

A bowl of candy

Description automatically generated with medium confidence

Homogenous

Heterogenous Homogenous

* 1. Determine if each sentence is describing a physical or chemical property.

|  |  |
| --- | --- |
|  | Physical or Chemical Property? |
| Zinc is a grayish color | Physical |
| Water will boil at 100 ℃ | Physical |
| Sodium will react with water forming hydrogen gas | Chemical |
| The substance in the lab was brittle to the touch | Physical |
| In lab two substances were combined. This caused an EXPLOSION | Chemical |
| Wow, that substance didn’t freeze until 23 K | Physical |

|  |  |
| --- | --- |
|  | Physical or Chemical Change? |
| The ice cream that was left in the sun started to melt | Physical |
| In lab, two substances were added together. Without the mixture being set on a hot plate, the mixture started to heat up | Chemical |
| You are in lab and all the sudden a gross smell starts coming from your beaker. | Chemical |
| You left you water bottle in your car and the water inside froze | Physical |
| While cooking you notice that the pot with boiling water has condensation on the top of the lid | Physical |
| You put a penny in a solution and it changed colors | Chemical |

1. Measurement Conversion.

Convert 1678 mg to g

Convert 50 m to cm

The average length of a great white shark is 640 cm. How long is the average length of a great white shark in micrometers?

The dinosaur has a temperature of 95.5 F. What is the dinosaur’s temperature in Celsius (℃)? In Kelvin (K)?

Formulas: ℃= (F-32) x (5/9)

0 ℃ = 273.15 K