Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_

Physical Properties of Matter

**What are Physical Properties?**

**What are some specific Physical properties?**

**How will density help figure out what a substance is?**

**How do you calculate Density?(the broken heart equation)**

* **Something that can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_changing the matter’s identity.**

* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- how well a substance transfers heat\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_- solid, liquid or gas**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- how much mass is in a given space Density=mass/volume or D=m/v**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-how well a substance dissolves in another substance.**
* **Ductility-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* **Malleability-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* **In liquids, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_liquid sinks to the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, least dense \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_on top.**
* **Solids can be checked against water’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(1g/cm3), if solid \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_it is less than 1g/cm3, if it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_it is more than 1g/ml**

1. **What you need-**

**1. Mass=m grams**

**2. Volume=V cm3, ml, m3, L**

1. **Formula (Draw the diagram)**

**What are physical changes?**

**Physical Changes in Matter**

**More Physical change examples:**

**Identify and compare the physical properties of matter to include density, melting/boiling points, states of matter, and solubility.**

**Explain what happens to matter during a physical change.**

**List the six examples of physical changes.**

* **When \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is changed from one \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_to another without changing its\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
* **Example: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **Water to ice, water to steam, steam to water**

**Examples:**

**Cut, tear, folded, written on,painted, \_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,**

**Mixture, solution**

**Shape changes, like crushing a can, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_a popsicle, dissolving kool-aid, melting butter. These have changed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_but are the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_of matter.**

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