Sc9 Notes Chem Unit – Spindlove Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**INVESTIGATING MATTER**

**Describing Matter**

* **Matter** is anything that has \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Matter can be described by its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Physical Properties:

* can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ without changing the identity of the substance

Chemical Properties:

* describe a substance’s ability to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ***with other substances*** to form new products.

**PHYSICAL PROPERTIES**

*Two categories:*

* + **Qualitative** properties: \_\_\_\_\_\_\_\_\_\_\_\_\_ but not measured; \_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ **Quantitative** properties: measured \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**>>>> Refer to ongoing Properties List <<<<**

**Changes in Matter**

* Matter can undergo 2 types of changes:
1. **Physical change**: the \_\_\_\_\_\_\_\_\_\_\_ of matter may change but \_\_\_\_\_ chemical bonds are broken or made and \_\_\_\_\_\_ new substance is formed





Changes of state depend on factors such as **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

When heat is added to a substance, its particles **\_\_\_\_\_\_\_\_\_\_\_** kinetic energy and move **\_\_\_\_\_\_\_\_\_\_**, causing them to move **\_\_\_\_\_\_\_\_\_\_\_\_** apart

***KMT***

1. **Chemical change**: occurs when substances combine to form \_\_\_\_\_\_\_\_\_ substances

Evidence of Chemical Change:

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