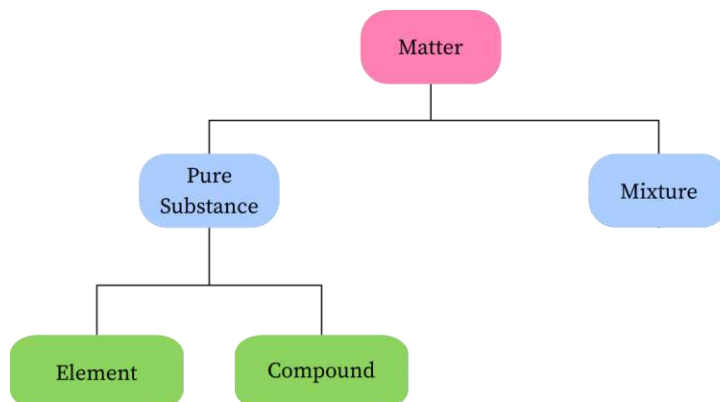


# What is Chemistry?

Chemistry is the study of STUFF.

In science we call that *matter*, anything that has mass and takes up space. This summer we will be learning about the properties of matter, what happens when matter is exposed to different temperatures and pressures, and how matter changes when it interacts with other matter.

## Classification of Matter



*Everything is made of **matter**.*

Physical Property: Any characteristic that you can observe without changing the substance that makes up the material. Examples: color, shape, size, density, melting point, odor. Today we will be using physical properties of matter to separate different mixtures.

### Six Ways To Separate A Mixture

1. Hand separation (by color, size, shape)
2. Sieve (by size)
3. Magnetic
4. Density
5. Filtering
6. Evaporation

### Mixture Separation Challenge

#### **Mixture #1: rocks, stones and sand**

Separate rocks by \_\_\_\_\_

Separate stones by \_\_\_\_\_

Separate sand by \_\_\_\_\_

#### **Mixture #3: cork, stones, and salt**

Separate cork by \_\_\_\_\_

Separate stones by \_\_\_\_\_

Separate salt by \_\_\_\_\_

#### **Mixture #2: iron filings and sand**

Separate iron filings by \_\_\_\_\_

Separate sand by \_\_\_\_\_