

Element, Compound, or Mixture?

⇒ [Copper]



Element, Compound, or Mixture?

Cu

Copper



Element, Compound, or Mixture?

[Jelly Beans]



Element, Compound, or Mixture?

Jelly Beans



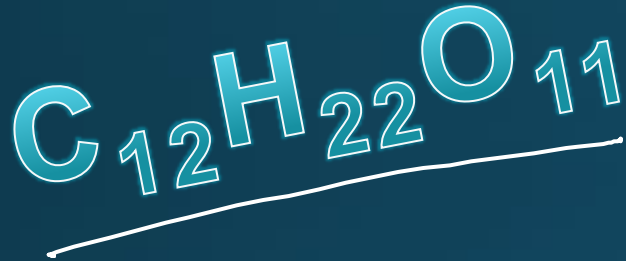
Element, Compound, or Mixture?

Table Sugar



Element, Compound, or Mixture?

Table Sugar ✓



Element, Compound, or Mixture?

[Diamond]



Element, Compound, or Mixture?

C

Diamond → C



Element, Compound, or Mixture?

Tea

چائے



Element, Compound, or Mixture?

Tea



Element, Compound, or Mixture?

Salt



Element, Compound, or Mixture?

NaCl ✓

Salt



Element, Compound, or Mixture?

Neon Gas



Element, Compound, or Mixture?

Ne

Neon Gas



Ne

Element, Compound, or Mixture?

Salad



Ne Element, Compound, or **Mixture**?
Salad



Element, Compound, or Mixture?

Pure Water



Element, **Compound**, or Mixture?



Pure Water



Element, Compound, or Mixture?

Aluminum



Element, Compound, or Mixture?

Aluminum

Al



Element, Compound, or Mixture?

Lemonade



Element, Compound, or Mixture?

Lemonade



Element, Compound, or Mixture?

Silver



Element, Compound, or Mixture?

Silver

Ag



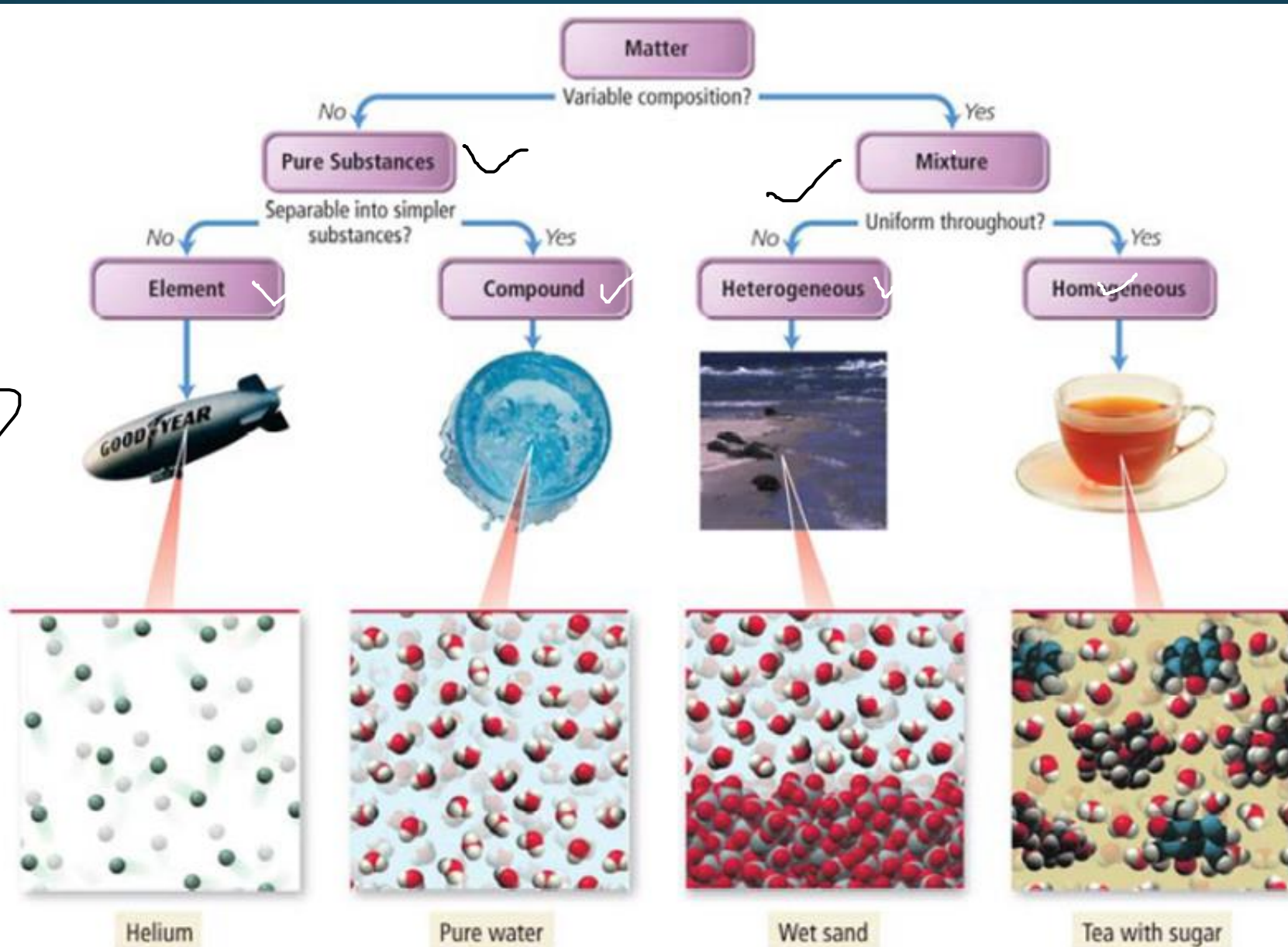
Element, Compound, or Mixture?

Sand



Element, Compound, or Mixture?
Sand





Chemical and physical changes



Physical Change (भौतिक परिवर्तन)

H_2O
 H_2O
 H_2O

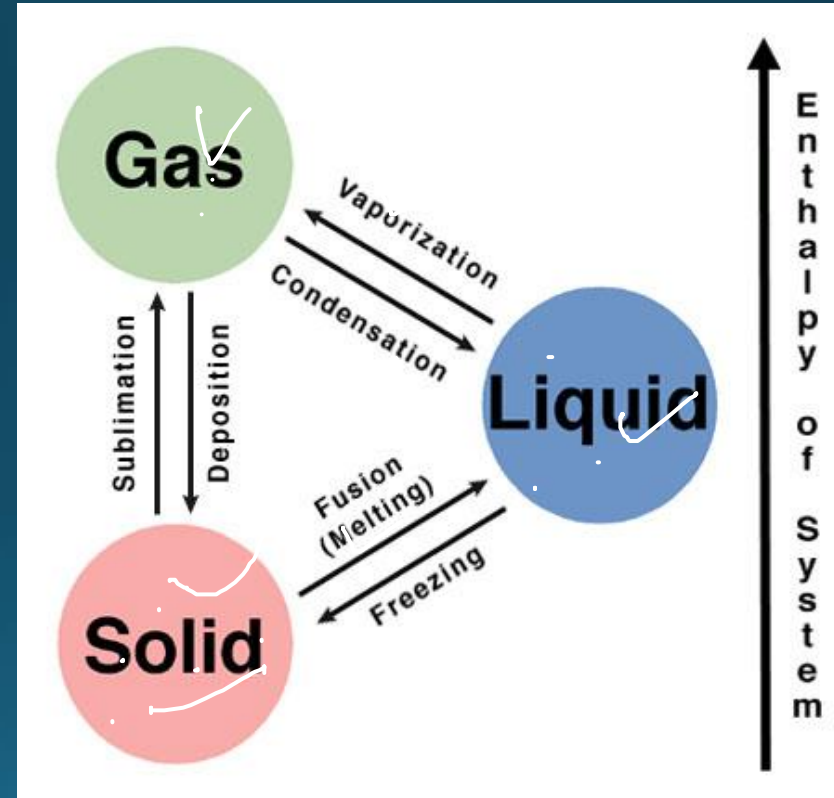
- A **Physical change** is a change in a substance that does not change what the substance is.



Physical Change - examples

- Examples of physical change include:

- ✓ ✓
 - Change in shape $2H_2O \rightarrow 2H_2O$
 - Change in size $2H_2O \rightarrow 2H_2O$
 - Change in phase
 - Melting (solid to liquid)
 - Boiling (liquid to gas)
 - Evaporation (liquid to gas)
 - Condensation (gas to liquid)
 - Freezing (liquid to solid)
 - Sublimation (solid to gas)
 - Deposition (gas to solid)



Physical Change

- Physical changes might be caused by:

- Grinding ✓
- Cutting ✓
- Crushing ✓
- Bending ✓
- Breaking ✓
- Heating/cooling
 - (change in phase)
- squishing ✓



Physical Change

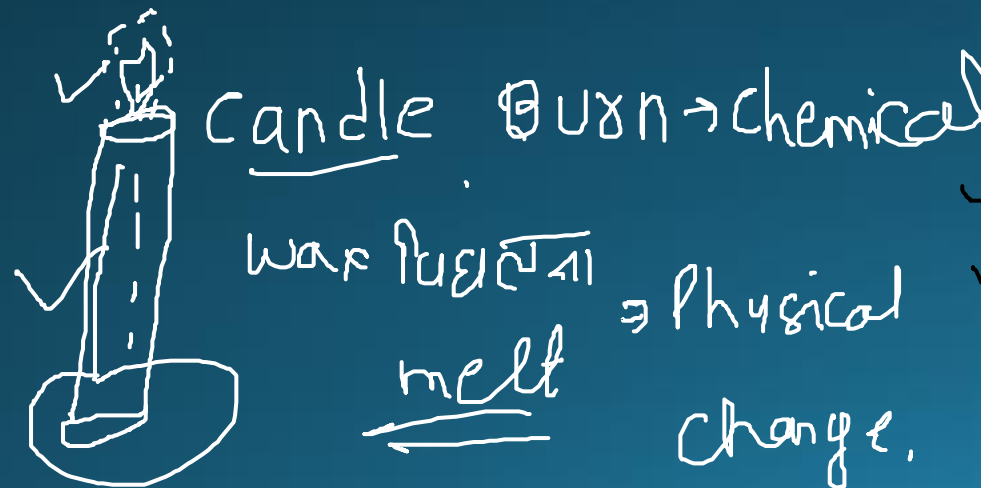
- Evidence that a physical change has occurred might include:

- Change in shape ✓
- Change in form ✓
- Change in size ✓
- Change in phase (This is always a physical change!) ✓
- Physical changes are usually reversible



Physical change

- What could you do to these items to cause a physical change to occur?



Chemical change

- A **chemical change** is a change in which a substance is changed into a different substance. (You've changed what it **is**.)



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Chemical change

- Examples of chemical changes include:

- Burning ✓
- Rusting ✓
- Tarnishing ✓
- Decomposing
- Polymerization

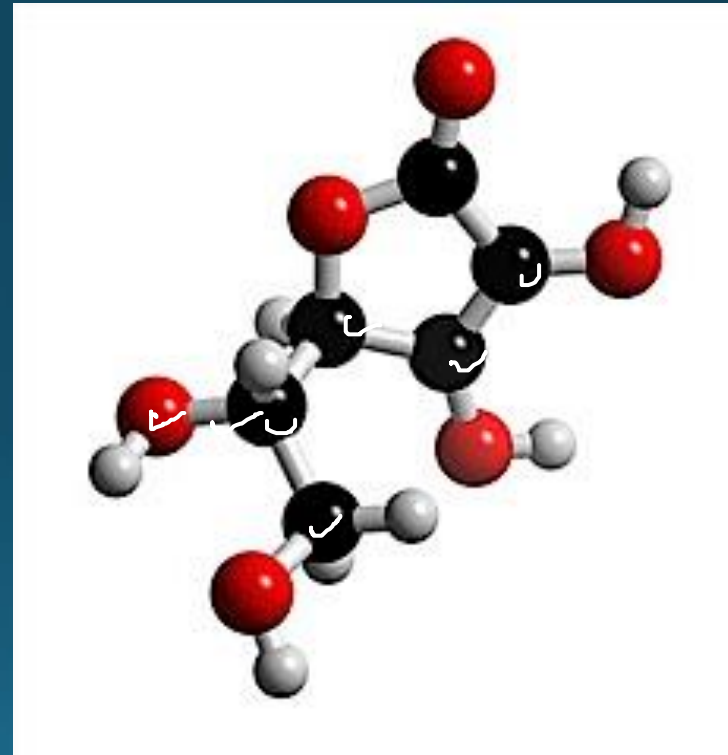


Chemical change

- Chemical changes occur when a **chemical reaction** causes bonds between atoms to break or to form.



Graph — Carbon — Diamond



Chemical change – Chemical reactions

- There are **5 types of chemical reactions** that cause chemical changes to occur.



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