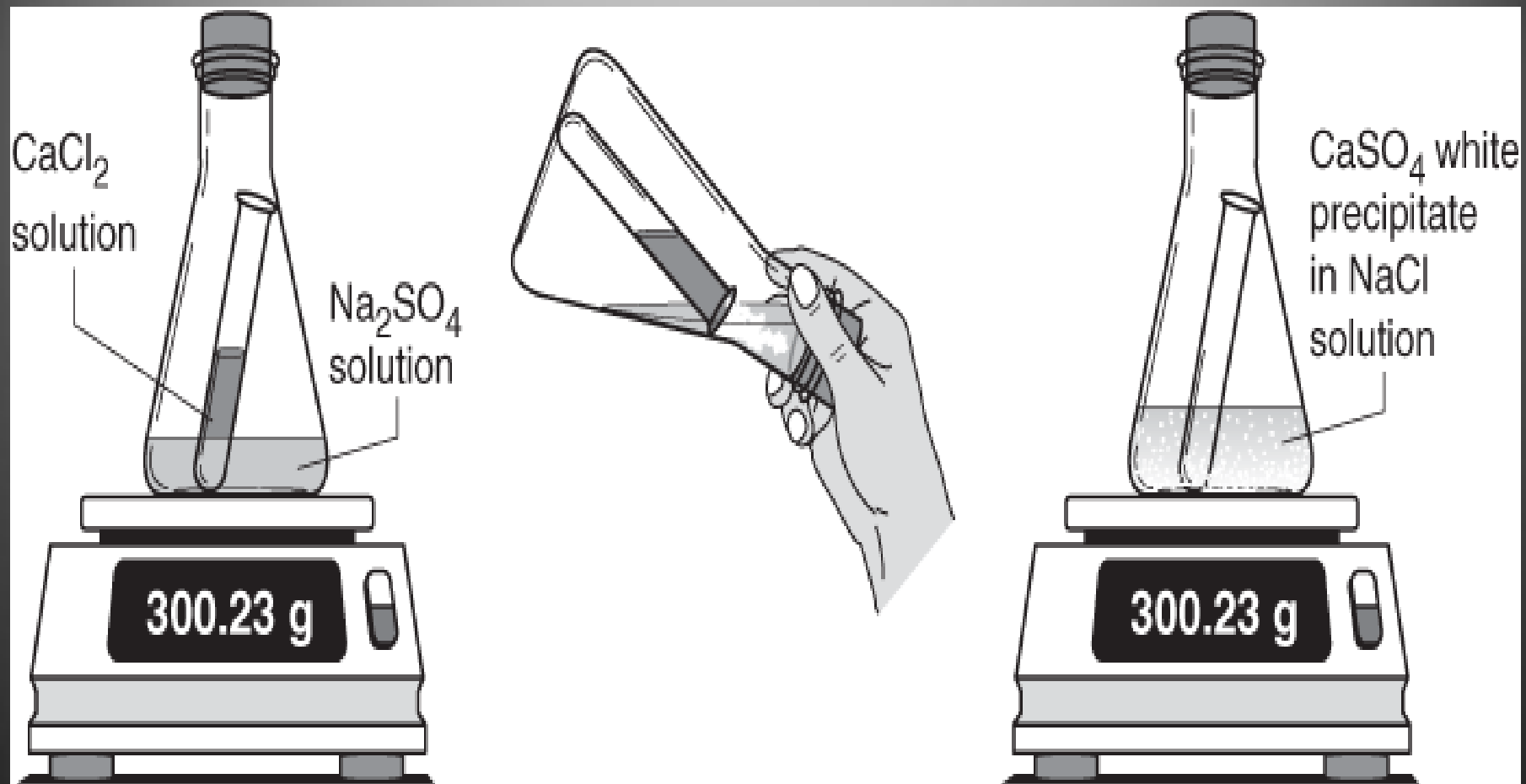


# LAW OF CONSERVATION OF MASS

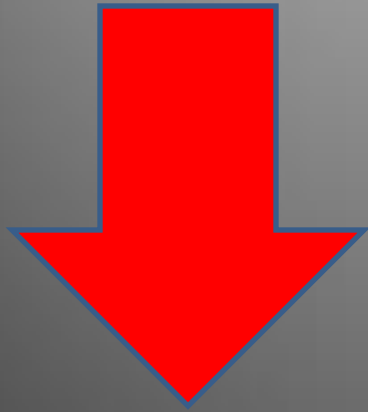
## (PAGE 79)

# DESCRIPTION:

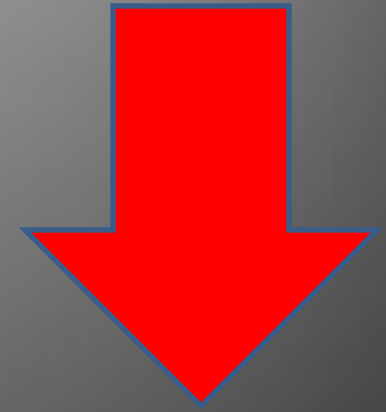
- In a chemical reaction, the mass:
  - is conserved or
  - does not change or
  - is always the same



1.00g carbon + 5.34g sulfur → 6.34g carbon disulphide



Total mass = 6.34g



Total mass = 6.34g

# DESCRIPTION:

- In a chemical reaction (chemical change):  
**mass you start with = mass you end with**
- In other words:  
**mass of reactants = mass of products**

- In a chemical reaction:  
**atoms are not created nor destroyed**
  
- In a chemical reaction:  
**all atoms present in the reactants  
are also present in the products**

- In a chemical reaction:

**The number of atoms of each different element must be the same on each side of the equation**

**For example:**



Element	Atoms on the left (reactants)	Atoms on the right (products)
Carbon (C)	1	1
Oxygen (O)	2	2



**Atoms of  
element X**



**Atoms of  
element Y**

**(a)**

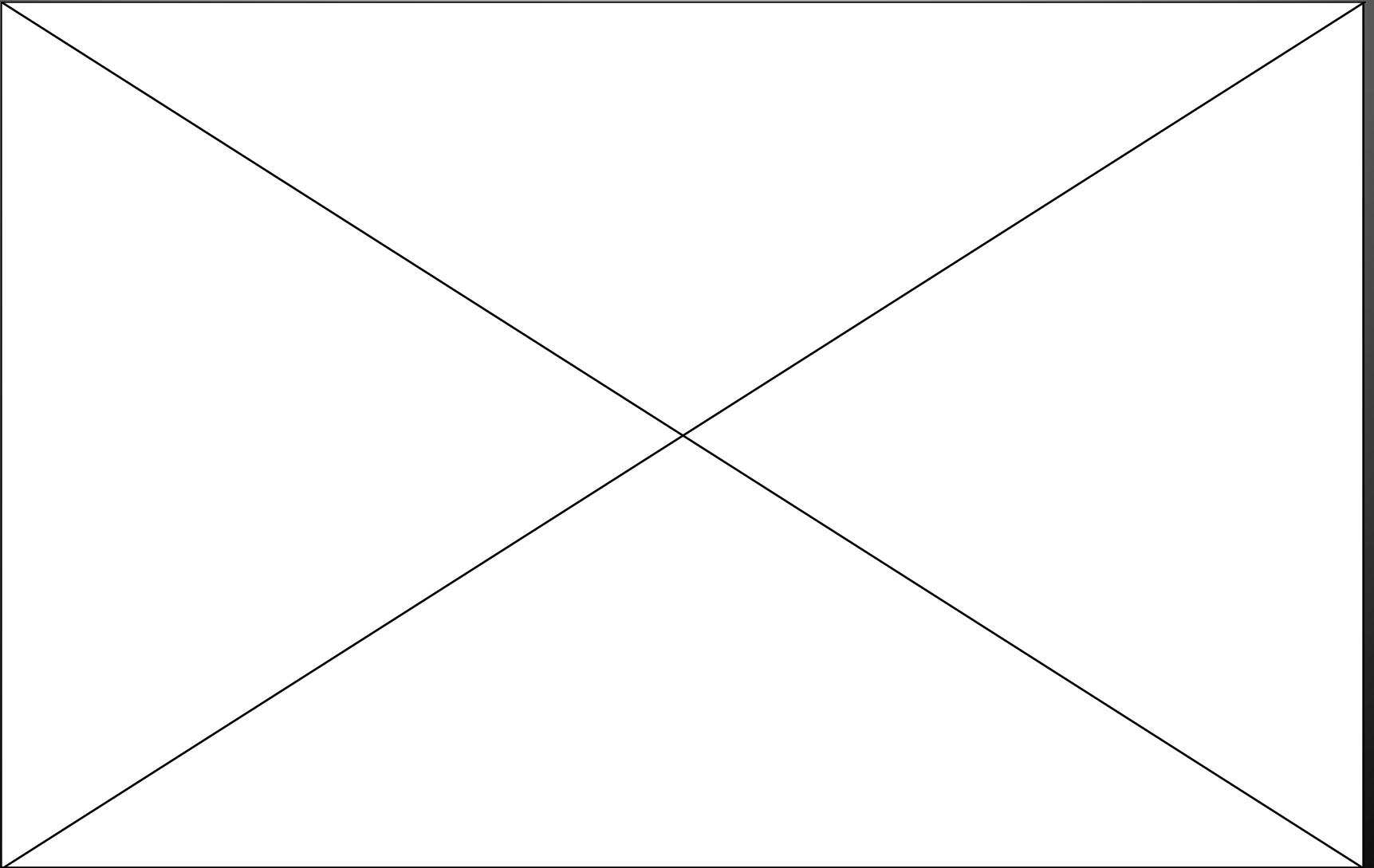


**Compounds of  
elements X and Y**

**(b)**



# Law of Conservation of Mass



# Law of Conservation of Mass

