

WEIGHT

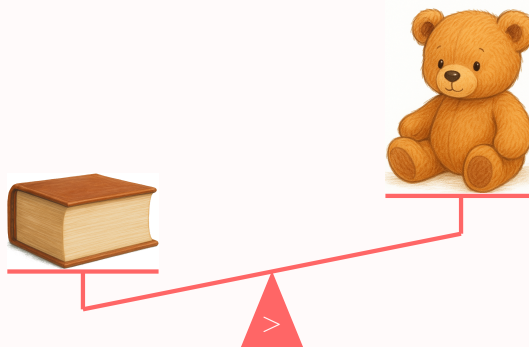
A WHAT IS A WEIGHT?

Definition Weight

Weight tells us how heavy something is. When we compare two objects, the **heavier** one has more weight and the **lighter** one has less weight. For example, a big book is heavier than a teddy bear.

Definition Balance Scale

A **balance scale** is a tool used to compare or measure the weight of two objects. It has two sides. The heavier side goes **down** and the lighter side goes **up**. If both sides are level, the two objects have the same weight.



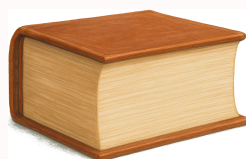
B WEIGHT UNITS

Definition Units of Weight

- **Gram (g)** — A small unit of weight. We use grams to weigh light objects, like a small candy or a paper clip.



- **Kilogram (kg)** — A bigger unit of weight. We use kilograms to weigh heavier objects, like a big book or a school bag.



C CONVERSION OF WEIGHT UNITS

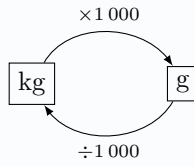
Definition Conversion of Weight Units

One kilogram is equal to **1 000 grams**. This means kilograms are a bigger unit and grams are a smaller unit.

- **1 kg = 1 000 g**

Method Converting with Multiplication or Division

- To convert from a **bigger** unit to a **smaller** one (kg → g), you **multiply** by 1 000.
Example: $3 \text{ kg} = 3 \times 1\,000 \text{ g} = 3\,000 \text{ g}$.
- To convert from a **smaller** unit to a **bigger** one (g → kg), you **divide** by 1 000.
Example: $2\,500 \text{ g} = 2\,500 \div 1\,000 = 2.5 \text{ kg}$.



Method Converting Using a Place Value Table

Convert 2 kilograms to grams.

1. **Draw the metric place value table.** Each unit has its own column.

kg			g

2. **Place the ones digit** of your number in the starting unit's column. Here, place the **2** in the **kg** column.

kg			g
2			

3. **Fill with zeros** in each column until you reach the column of the target unit. We want to convert to **grams (g)**.

kg			g
2	0	0	0

4. **Read the number** to find the converted value.

$$2 \text{ kg} = 2000 \text{ g.}$$