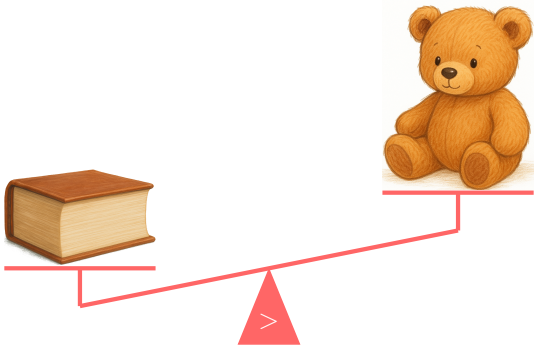
WEIGHT

A DEFINITION

Discover: Weight tells us how heavy something is. Imagine you have a teddy bear and a big book. The teddy bear feels light when you pick it up, but the book feels heavy. That's because the book has more weight than the teddy bear!

Definition **Balance Scale**

A **balance scale** is a tool we use to compare the weight of two things. It has two sides that go up or down. If one thing is heavier, its side goes down, and the lighter side goes up.



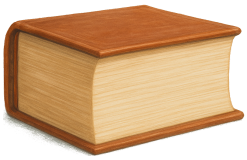
B WEIGHT UNITS

Discover: We can measure weight using different objects like marbles or candies. But these objects are not the same for everyone. Your friend might have bigger marbles than yours, making it hard to compare. To solve this, mathematicians created universal units called grams and kilograms, so everyone can measure and compare weights the same way.

Definition **Units of Weight**

- **Gram** (g): A small unit of weight, about the weight of a small candy.

- **Kilogram** (kg): A bigger unit of weight, about the weight of a big book.



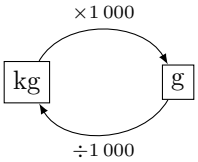
C CONVERSION OF WEIGHT UNITS

Definition **Conversion of Weight Units**

- $1\,\text{kg} = 1000\,\text{g}$

Method **Converting Using Multiplication or Division**

- Use **multiplication** to go from a bigger unit to a smaller one (like kilograms to grams).
- Use **division** to go from a smaller unit to a bigger one (like grams to kilograms).



Method **Converting Using a Table**

To convert between units of weight, we can use a conversion table. For example, to convert 2 kilograms to grams:

1. Write the units in the table: kg, g.

kg			g

2. Place the number in the column of the unit you start with.

kg			g
2			

3. Fill in zeros in the columns to the right until you reach the unit you want to convert to.

kg			g
2	**0**	**0**	**0**

4. Read the number as a whole to get the converted value.

So, 2 kg = 2 000 g.