

How do you measure the  
mass of a pencil?



In this lesson you will learn  
how to find the mass of  
an object by using a  
balance scale.

# Let's Review

Mass is the amount of matter in an object. Everything has mass.

GAS



LIQUID



SOLID



# A Common Misunderstanding

Thinking that the mass of an object is always related to the size of an object.



# Core Lesson

We measure the mass of objects in grams and kilograms.



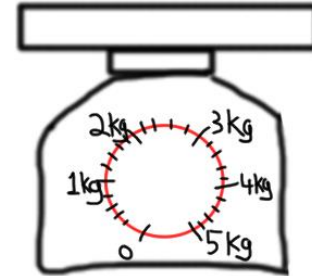
1 g



1 kg

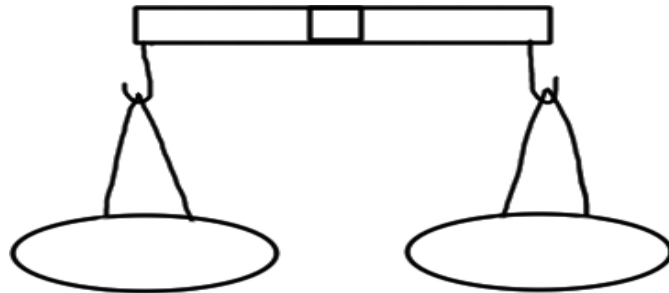
# Core Lesson

We use different scales to measure the mass of different objects.



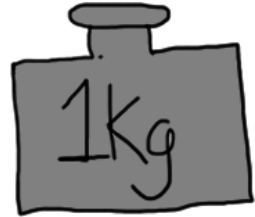
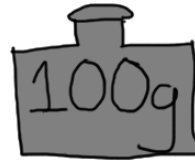
## Core Lesson

To measure smaller objects, we use a balance scale. Balance scales are used to measure objects by comparing their mass to a set of known masses.



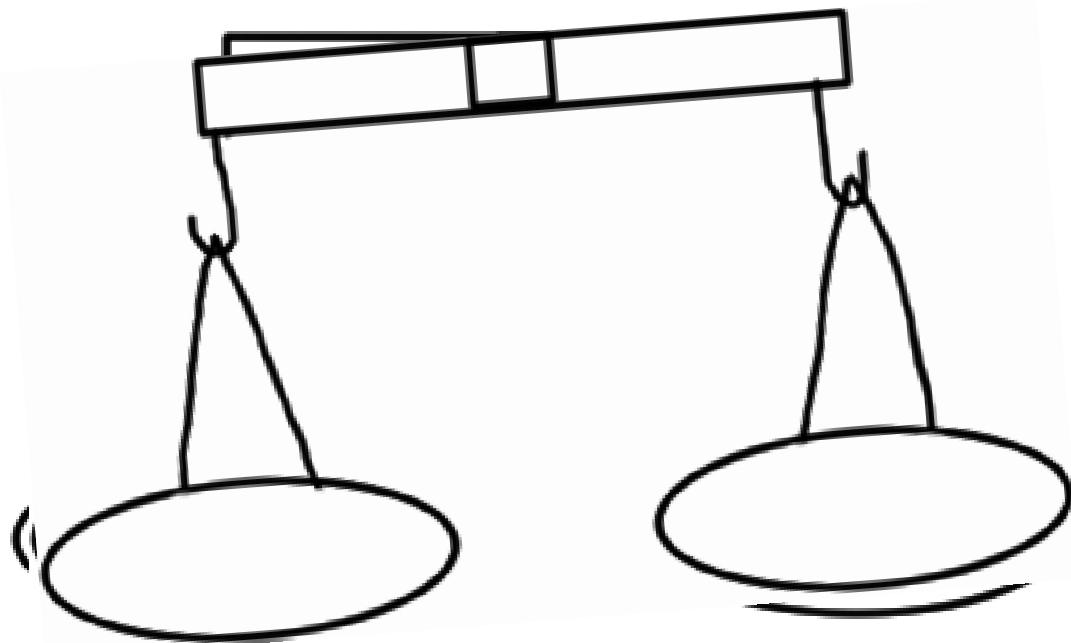
# Core Lesson

We can use benchmark masses to determine the weight of another object.





# Core Lesson

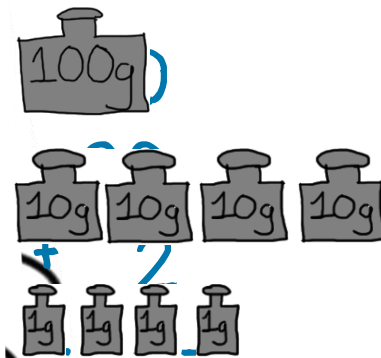


$$\begin{array}{r} 1 \\ 1 \\ 1 \\ + 1 \\ \hline \end{array}$$



4 grams

# Core Lesson



122 grams

In this lesson you have  
learned how to find the mass  
of an object by using  
a balance scale.