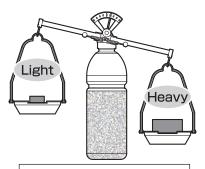
How to use the balance

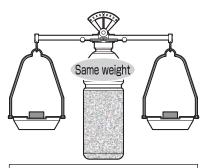
Check that both sides are balanced. If they are not balanced, shift the balance using the adjustable rod.



OPlace a weight on each side.



When the object on the right is heavier, \downarrow The right-hand side will be lower.



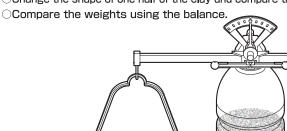
When the objects on both side have the same weight,

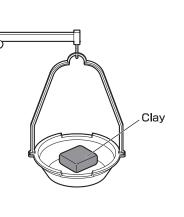
The two sides will be balanced. (Becomes horizontal)



Compare weights by changing the shape of the object (shape and weight).

- \bigcirc Divide the clay into halves, place them on both sides, and balance them against each other.
- Change the shape of one half of the clay and compare the weight of the two halves in your hands.

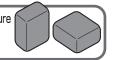




☆Let's write down the results of the experiment. (e.g., how heavy were the clay?).

Shape	Weight (felt on hand)	Weight (measured on scale)
	Expectation write down your expectation	Expectation write down your expectation
	Results	Results
Sphere	No change	No change
	Expectation write down your expectation	Expectation write down your expectation
Flat	Results No change	Results No change
	Expectation write down your expectation	Expectation write down your expectation
	Results	Results
Thinly stretched	No change	No change
	Expectation write down your expectation	Expectation write down your expectation
	Results	Results
Small pieces	No change	No change

Let's try
it out! What will happen to the texture
and weight if you change
the shape of the clay?



Let's try

- Out the aluminium foil in half with scissors, place it on both sides of the balance.
- Change the shape of one of the aluminium foils and compare the weight using the balance.
- ∴ Let's write down the results of the experiment.

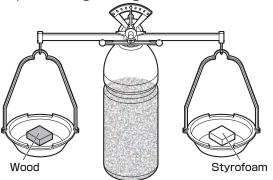
(e.g., how heavy were the clay?).

Shape	Weight (measured on scale)
	Expectation write down your expectation
Thin strips	Results No change
	Expectation write down your expectation
Sphere	Results No change
	Expectation write down your expectation
Small pieces	Results No change



Compare the weights of objects with the same volume (volume and weight).

- OHold a piece of wood and a piece of styrofoam of the same size in your hand and compare their weights.
- OCompare the weights using a balance.



☆Write down which is heavier and which is weaker, and summarise what you found out in the experiments.

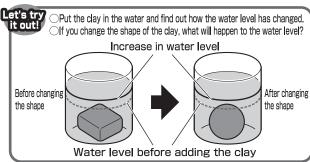
Weight (felt on hand)	Weight (measured on scale)
Expectation write down your expectation	Expectation write down your expectation
Results	Results
The wood is heavier	The wood is heavier

Findings

<Example>

Even if the volume is the same, the weight is

different depending on the object.



230303K.