



Weights Less / More?



DO IT
DIY
YOURSELF



Measuring Weight with DIY Balance Scale

Objective

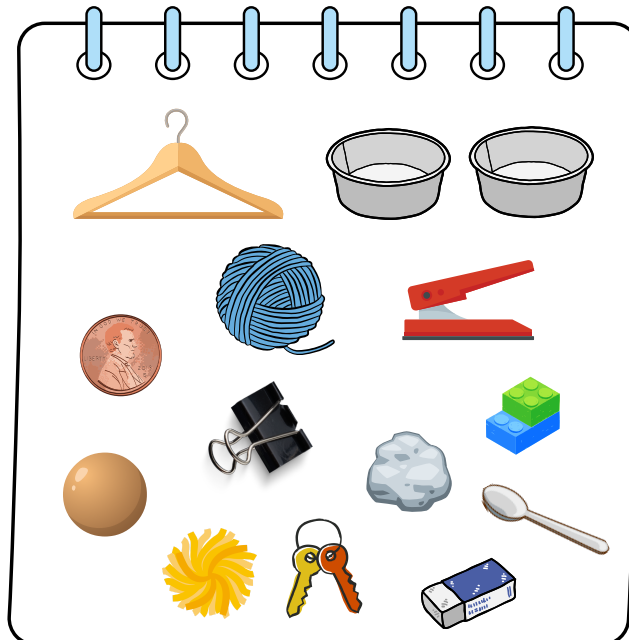
- Learn about balance and weight comparison.
- Understand how a balancing scale works.
- Measure and compare objects using a DIY balancing scale.



**ARE YOU
READY?**

Materials Required

- A hanger or wooden stick
- Two small paper cups or bowls
- String or thread
- Tape or hole puncher
- Objects to weigh (toys, coins, erasers, etc.)









How to Make Balancing Scale

- Punch holes on opposite sides of both cups.
- Cut two equal lengths of string and tie each end to a cup through the holes.
- Tie both strings to opposite ends of the hanger (or stick) securely.
- Hang the balancing scale on a stand (or hold it in the center).
- Place objects in the cups and observe which side goes lower.

Experiment 1

Comparing Object Weights

- Place different objects in each cup and see which side goes down.
- Fill in the table below by writing "Heavier" for the object that moves down and "Lighter" for the other.

Object 1	Object 2	Which is Heavier?	Which is Lighter?
			
			
			





Let's do this!



Experiment 2

Estimating and Balancing Equal Weights

- Place an object in one cup and predict how many small units (blocks, balls, paper clips) will balance it.
- Test your prediction and fill in the table below.

Object	Your Guess	Actual Number of Units
		
		
		
		




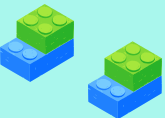

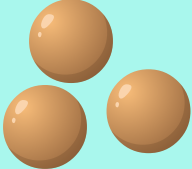


**LET'S
DO THIS**

Experiment 3

Adding and Subtracting Weight

- Add small items one by one to see how many it takes to balance a heavier object.

Starting Object	Added Objects	Balanced? (Yes/No)
		
		
		

let's
DO THIS



Questionnaires

What happens when you add more weight to one side?

Can you make both sides balance perfectly? How?

What surprised you the most in this activity?

LET'S LEARN

See-Saw Science – A balancing scale works just like a see-saw! The heavier side goes down, and the lighter side goes up.



It's All About Gravity! – The reason objects weigh something is because Earth's gravity pulls them down.



Many markets and stores used balancing scales before digital scales were invented.

DID YOU KNOW

