



Science Tools

Nature of Science
Laboratory Instruments



SCIENCE TOOLS

- **To become a successful scientists, we must be able to identify and use scientific instruments or tools.**
- **These tools are for collecting data, taking measurements, and recording observations.**
- **Scientists use a variety of tools to do investigations.**

Computer



- **An electronic tool that performs tasks by processing and storing information.**

Calculators



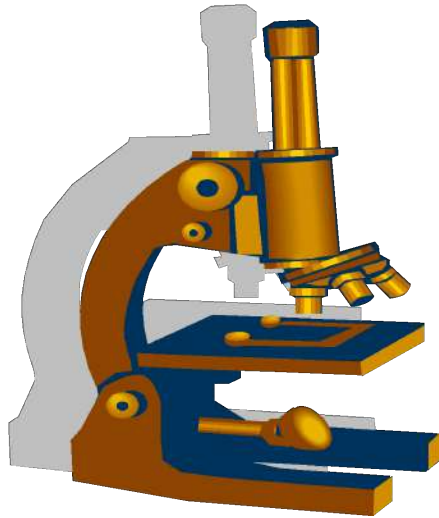
- **An electronic device for solving mathematics problems**

Hand Lens

A tool that magnifies objects or makes objects look larger than they are.



Microscope



- A tool that magnifies at a much higher power than a hand lens.
- It magnifies smaller objects or makes smaller objects larger.

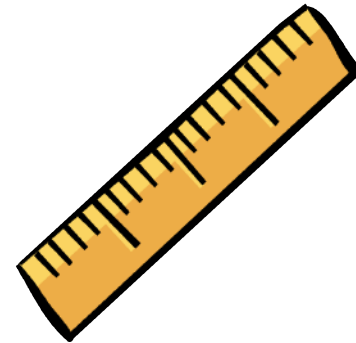
Telescope



- A tool used to see objects in the sky.
- It magnifies or makes objects in the sky larger.

Meter Stick

- A meter tool that is used to measure distance and the length of objects.
- It tells how long an object is.
- In science, we use the metric system for measuring.



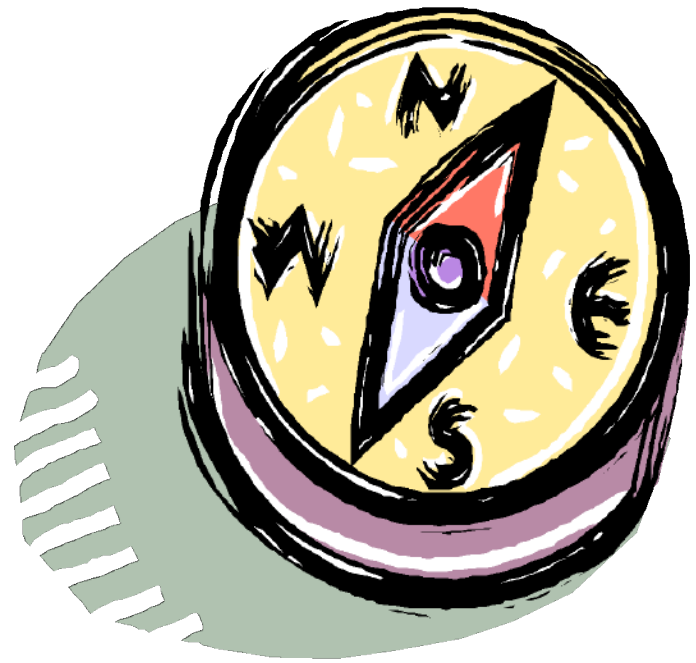
Thermometer



- A tool used to measure temperature.
- It measures the temperature of air and most liquids.
- The Greek prefix “**therm**” means “**heat**”.

Compass

- A tool for telling directions.
- It is used to find Earth's magnetic north pole.

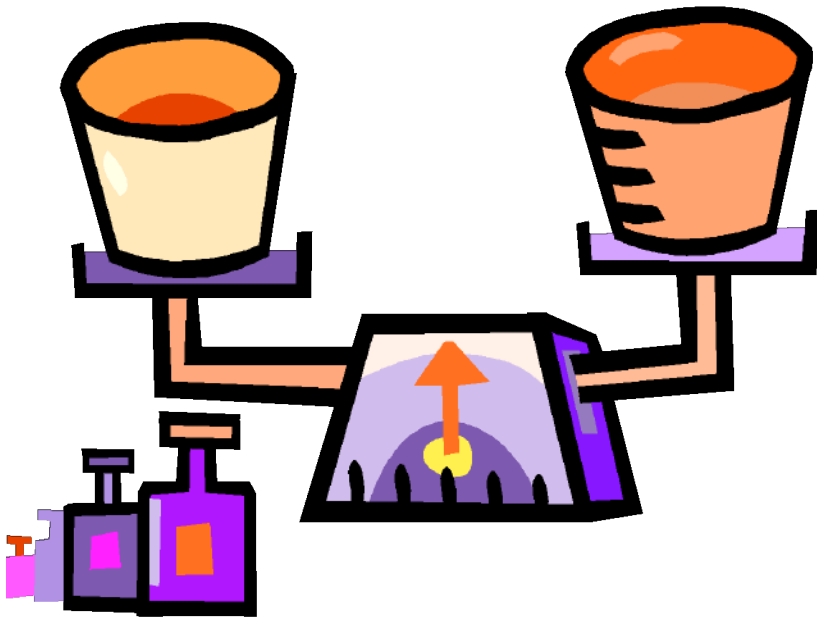


Stopwatch

- A tool used to measure time.

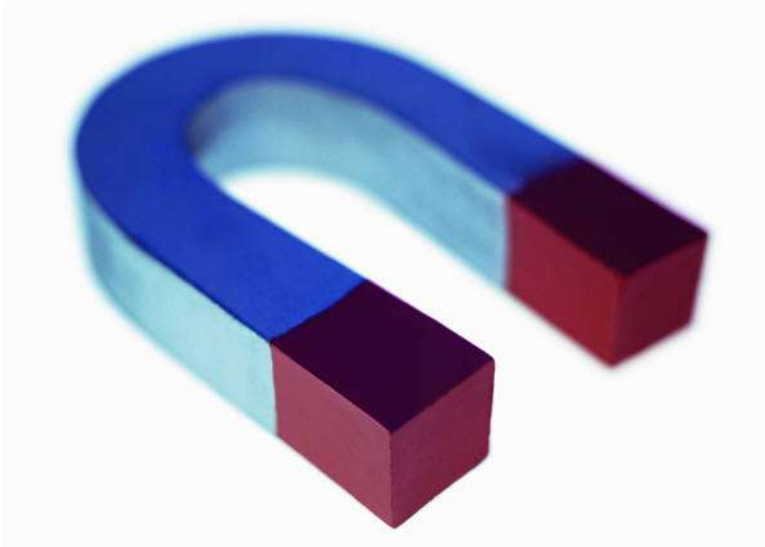


Balance



- A tool used to measure the mass of an object.
- A balance tells the amount of matter an object contains.

Magnet



A magnet attracts and repels substances.

It is attracted or pulled to items with iron, nickel, or steel.

Collecting Net

- A tool used to gather animal samples or specimens such as butterflies.



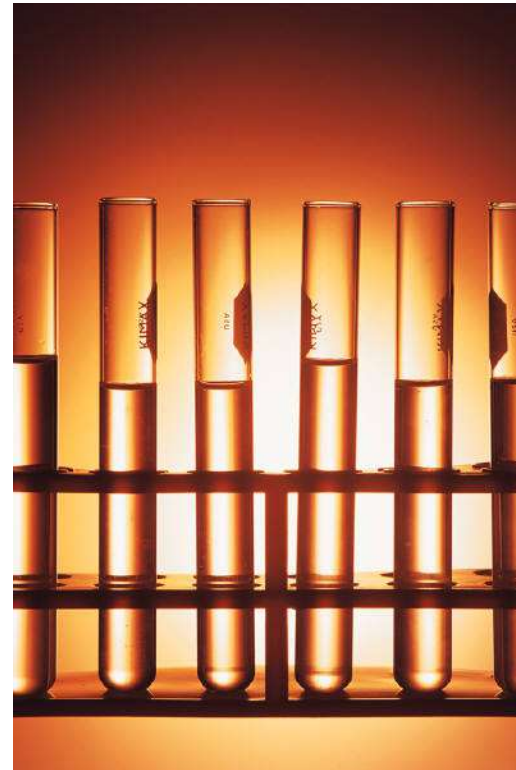
Safety Goggles



- Eyewear that protects the eyes during a science experiment or investigation from hazardous or dangerous materials.

Test Tube

- A test tube is smaller than a beaker.
- It is open at one end and closed at the other.
- It is cylindrical in shape.

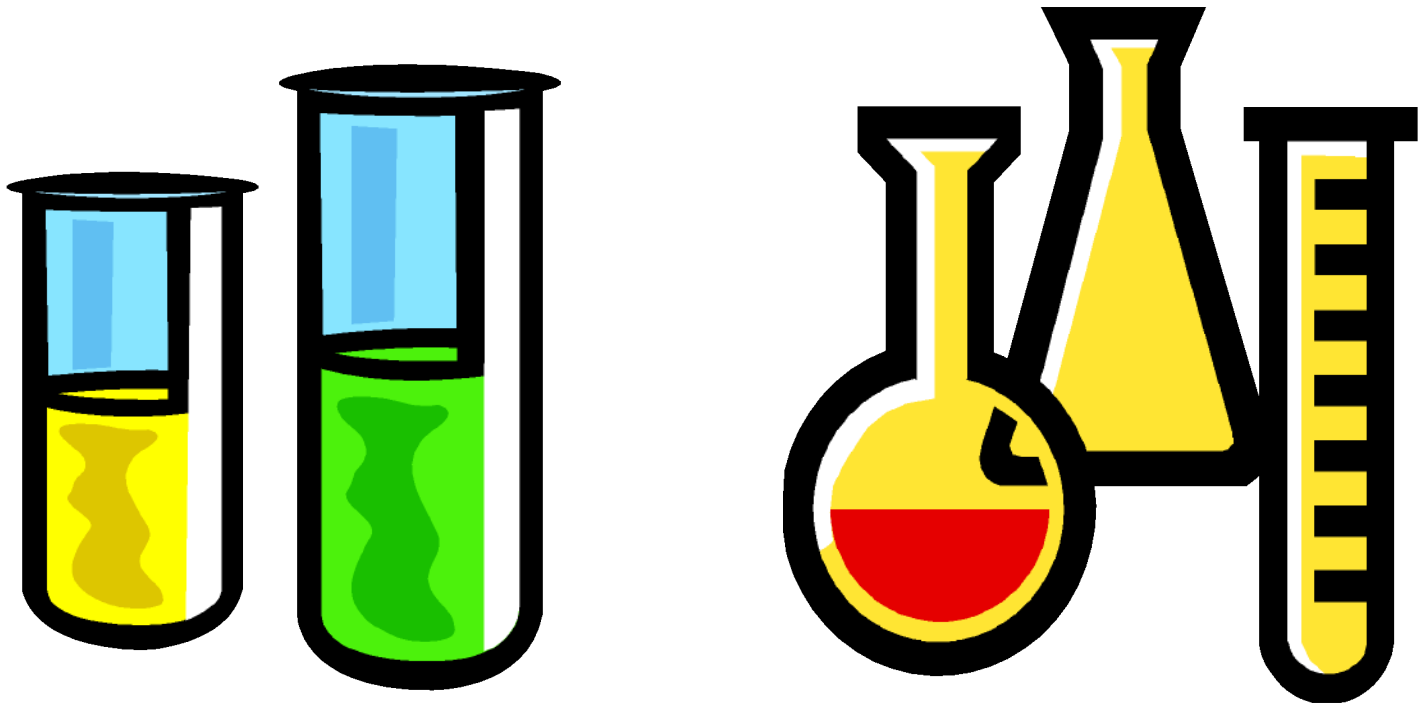


Beaker

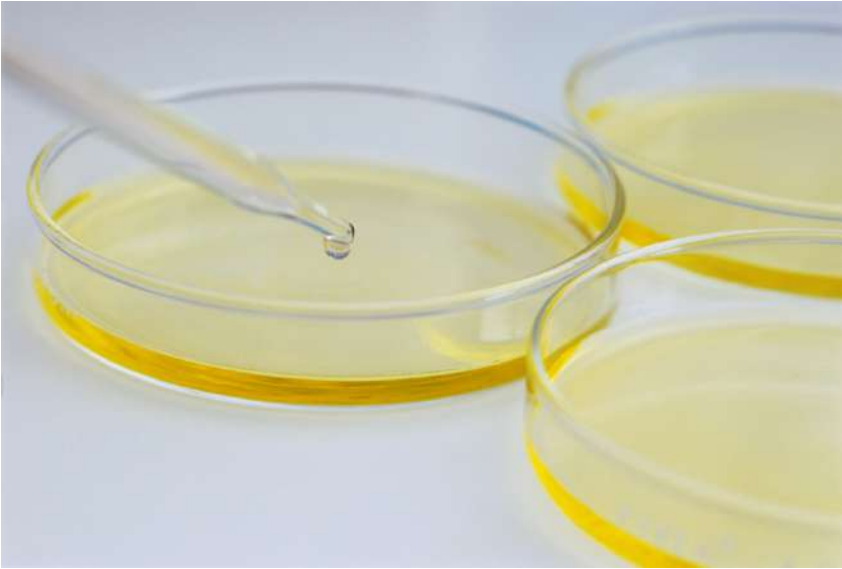
- An open cylindrical container with a pouring lip.
- It measures volume or the amount that is being held.



Graduated Cylinder

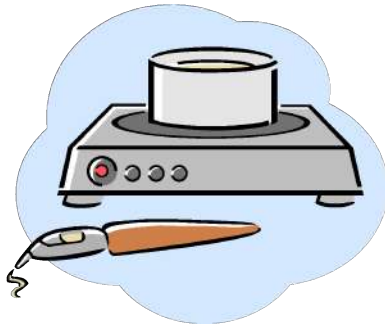


Petri Dish



- **A container used for samples or specimens.**
- **A tool to culture microorganisms.**

Hot Plate



- **A tool used to heat objects.**