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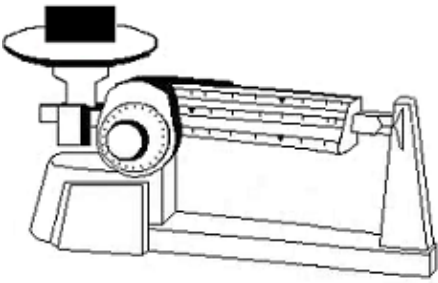
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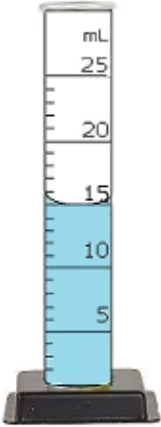

Lab Tools

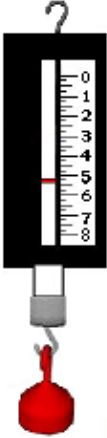

Laboratory tools are used to make measurements and gather data in the lab.




Knowing how to correctly use laboratory tools is important for making precise and accurate measurements. Many common laboratory tools are described in the table below.

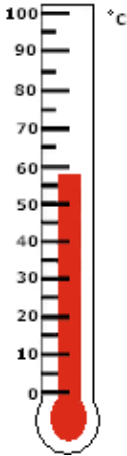


Common Laboratory Tools

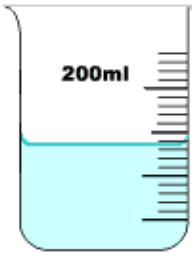


Name of Lab Tool	Picture of Lab Tool	Description of Lab Tool
<p>Triple Beam Balance</p>		<p>A triple beam balance is used to measure the mass of solid objects in grams (g). It has three beams that each measure mass to a different unit place (ones, tens, hundreds).</p>


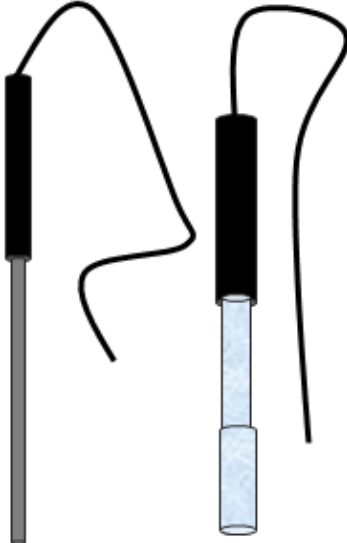
Name of Lab Tool	Picture of Lab Tool	Description of Lab Tool
<p>Graduated Cylinder</p>		<p>A graduated cylinder is used to measure the volume of liquids in milliliters (mL). It is read by looking at the very bottom of the curve of liquid in the cylinder. This curve of liquid is called a <i>meniscus</i>.</p>
<p>Ruler</p>		<p>A ruler is used to measure the length of objects. It usually has two edges, one that measures in metric units (centimeters), and one that measures in English units (inches).</p>

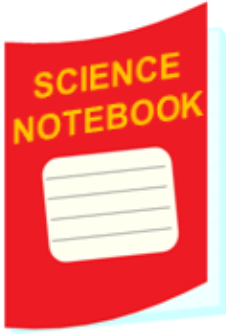

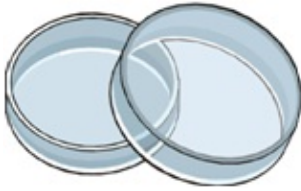
Name of Lab Tool	Picture of Lab Tool	Description of Lab Tool
<p>Spring Scale</p>		<p>A spring scale is used to measure the weight, or gravitational force, of an object. It is used by attaching an object to the hook at the end of the scale. Then, the weight is displayed on the tube of the scale in Newtons (N) or pounds (lb).</p>
<p>Compass</p>		<p>A compass is a tool that detects magnetic fields. When no local fields are present, a compass will detect Earth's magnetic field. The arrow of a compass generally points North, so a person using a compass can tell which direction (North, South, East, or West) he or she is facing.</p>


Name of Lab Tool	Picture of Lab Tool	Description of Lab Tool
Microscope		A microscope is used to view objects, such as cells, that are too small to be seen with the naked eye.
Stopwatch		A stopwatch is used to measure time in seconds and minutes.
Telescope		A telescope is used to view objects, such as planets and moons, that are very far away.

Name of Lab Tool	Picture of Lab Tool	Description of Lab Tool
Thermometer		<p>A thermometer is used to measure temperature in either degrees Celsius ($^{\circ}\text{C}$) or degrees Fahrenheit ($^{\circ}\text{F}$). A thermometer is read by looking at the number that is displayed at the top of the red line inside of the thermometer.</p>
Video Camera		<p>A video camera is used to record events by taking continuous pictures that can be replayed on a screen. Video cameras are useful for watching an event many times. They can also be used to watch a very fast event in slow motion.</p>
Digital Camera		<p>A digital camera is used to capture still photographs of objects or events. Still images that are taken during an investigation can be analyzed later on.</p>

Name of Lab Tool	Picture of Lab Tool	Description of Lab Tool
Beaker		<p>A beaker is a type of glassware. It can be used to store liquids, heat liquids, and measure the volumes of liquids. Beakers have broad, flat bases. Beakers usually measure liquid volumes in milliliters (mL).</p>
Test Tube		<p>A test tube is a long, narrow type of glassware in which liquids can be stored and heated. Test tubes have round bases and are stored in test tube racks or mounted on test tube stands.</p>
Hot Plate		<p>A hot plate is a type of lab equipment used to heat substances (usually liquids). It has a flat platform where a beaker containing a liquid can be placed.</p>

Name of Lab Tool	Picture of Lab Tool	Description of Lab Tool
Audio Recorder		An audio recorder is used to record sounds and replay them at a later time. This allows sounds that are produced during an investigation to be analyzed after the investigation is complete.
Temperature and pH Probes		A probe is a tool that connects electronically to a computer or a digital display. Temperature probes can read and record the temperature electronically. Numerical values for the pH of an acid or base may be recorded using a pH probe.

Name of Lab Tool	Picture of Lab Tool	Description of Lab Tool
Science Notebook or Journal		<p>A science notebook, which may also be called a journal, is an important tool for controlled laboratory experiments and also for doing fieldwork. The prediction, procedures, data, and observations should be recorded using words, pictures, or data tables.</p>
Hand Lens		<p>A hand lens is used to look at objects up close. It makes objects appear larger.</p>
Petri Dish		<p>Petri dishes are most often used for growing cultures of microorganisms, such as bacteria or mold. They may also be used as containers in the lab.</p>

Name of Lab Tool	Picture of Lab Tool	Description of Lab Tool
Bunsen Burner	 A photograph of a Bunsen burner. The burner is silver and has a glass chimney at the top. A label 'gas hose' with an arrow points to the side inlet on the base. Another label 'needle valve' with an arrow points to the adjustment knob on the side of the burner's body.	A Bunsen burner is a type of lab equipment used to heat substances by flame.

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