
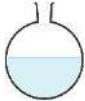









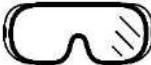





Name \_\_\_\_\_ Date \_\_\_\_\_



## LAB EQUIPMENT QUIZ –Answer Key

1. Identify the laboratory equipment shown in the picture and write down its main function:

Equipment	Name	Function
	<b>Tongs</b>	<b>Used to safety hold corrosive or hot solids</b>
	<b>Round-bottomed flask</b>	<b>Used when heating liquid substances, as it provides uniform heat distribution to prevent the flask from cracking due to expansion.</b>
	<b>Erlenmeyer flask or Conical flask</b>	<b>Used for general laboratory experiments and for measuring approximate volumes of liquids</b>
	<b>Pipette</b>	<b>Used to deliver a specified volume of liquid accurately</b>
	<b>Dessicator</b>	<b>Used for drying or keeping substances free from moisture</b>
	<b>Seperating funnel</b>	<b>Used for separating immiscible liquids</b>
	<b>Spotting tile</b>	<b>Used to observe color changes in micro quantities of liquids</b>

	<b>Thistle funnel</b>	<b>Used for delivering liquid substances in reaction vessels</b>
	<b>Weighing balance</b>	<b>Used to measure the mass of substances accurately.</b>
	<b>Goggles</b>	<b>Used for eye protection against chemical splashes, debris, or other hazards.</b>
	<b>Clamp and stand</b>	<b>Used for holding and supporting pieces of apparatus during experiments</b>
	<b>Mortar and Peste</b>	<b>Used for crushing substances</b>
	<b>Bunsen burner</b>	<b>Source of heat in the laboratory</b>
	<b>Dropper</b>	<b>Used for delivering liquids drop-wise</b>
	<b>Filter funnel</b>	<b>Used for delivering liquids carefully into vessels</b>

2. Indicate the apparatus that would be useful for each of the following tasks. Hint is given in italics:

Task	Apparatus
Used for even distribution of heat when heating substances in beakers or flasks ( <i>rwei zeagu</i> )	Wire Gauze
Holding 100mL of water ( <i>ebkare</i> )	Beaker
A narrow-mouthed container used to transport, heat or store substances, often used when a stopper is required ( <i>ymerereel kslaf</i> )	Erlenmeyer flask
Used to grind chemicals to powder ( <i>tmraor nda stlepe</i> )	Moartar and Pestle
Used as a surface to evaporate a liquid, as a cover for a beaker, or to hold solids while being weighed ( <i>fahcw sgasl</i> )	Watch glass
Holding many test tubes filled with chemicals ( <i>estf ubet karc</i> )	Testtube rack
Measuring 27 mL of liquid ( <i>daudgtear ldnreiy</i> )	Graduated cylinder
Used for separating immiscible liquids ( <i>laef ginen snprutn</i> )	Separating funnel
Protects the eyes from flying objects or chemical splashes ( <i>ggloges</i> )	Goggles
Used when heating liquid substances because heat is supplied uniformly so that the flask doesn't crack as it expands ( <i>bfka bentl doso dulrl</i> )	Round-bottomed flask
Measuring exactly 43mL of an acid ( <i>tretube</i> )	Burette

**3. Identify the most suitable laboratory equipment that the following students can use in each scenario to successfully carry out the described lab activities:**

- a. Emily was heating a test tube over a Bunsen burner when the test tube shattered. What safety equipment could have protected her from potential injuries?

**Safety goggles, heat-resistant gloves.**

- b. Sarah needs to transfer a hot crucible from the furnace to a desiccator. Which lab equipment would be most suitable for safely handling the crucible?

**Tongs**

- c. Emily needs to support a crucible over a Bunsen burner flame for heating. Which lab equipment would provide stable support for the crucible?

**Pipe-clay triangle**

- d. Max needs a suitable surface to let him evaporate a liquid slowly to observe the formation of crystals. Which lab equipment would allow him to evaporate the liquid evenly?

**Watch glass**

- e. Ethan is conducting a laboratory experiment that requires continuous stirring of a solution. Which lab equipment would provide consistent stirring without manual intervention?

**Magnetic stir bar**

- f. Chloe needs to measure the pH of a solution accurately. Which lab equipment would allow her to measure the pH precisely?

**pH meter**

- g. In a past separation of mixtures lesson, Sarah needed to separate two immiscible liquids with different densities. Which lab equipment would allow her to perform the separation efficiently?

**Separating funnel**

- h. Paul needs to hold substances being burned in gas jars to observe their combustion properties. Which lab equipment would be most suitable for this purpose?

**Deflagrating spoon**

- i. Jack needs to add water to vessels with narrow necks without spilling. Which lab equipment would allow him to control the flow of water precisely?

**Wash bottle**