

Introductory Module: Fundamentals of Science






Topic 5 Content: Chemistry Laboratory Equipment Presentation Notes

Introduction

Chemistry Laboratory Equipment

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When participating in chemistry scientific investigations, you will use a variety of laboratory equipment. Some of this equipment has very specific purposes, while other equipment can be used for general functions. In this activity, click on each of the images and arrows to learn more about the laboratory equipment used in a chemistry lab.

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Beaker

Chemistry Laboratory Equipment

Beaker

A beaker is used to mix and store solutions.



A beaker is used to mix and store solutions.

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Erlenmeyer Flask

Chemistry Laboratory Equipment

Erlenmeyer Flask

An Erlenmeyer flask is used in titrations, and to easily swirl and mix liquids. It is also used to cover an evaporation dish or beaker.



The image shows a presentation slide titled "Chemistry Laboratory Equipment" with a sub-heading "Erlenmeyer Flask". The text describes the flask's uses in titrations, mixing, and covering evaporation dishes. A photograph shows four flasks of increasing size. Below the main content is a navigation bar with five icons: a ruler, two flasks, a graduated cylinder, a rack of test tubes, and a scientist using a pipette, with a right-pointing arrow.

An Erlenmeyer flask is used in titrations, and to easily swirl and mix liquids. It is also used to cover an evaporation dish or beaker.

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Graduated Cylinder

Chemistry Laboratory Equipment

Graduated Cylinder

A graduated cylinder is used to accurately measure liquids, as well as to determine the volume of irregularly-shaped solid objects.



A graduated cylinder is used to accurately measure liquids, as well as to determine the volume of irregularly-shaped solid objects.

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Test Tube and Rack

Chemistry Laboratory Equipment

Test Tube and Rack

A test tube is used to heat small amounts of solids at high temperatures. Test tube racks are designed to hold several test tubes in a vertical position, and may be used to store them.



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Test Tube Holder

Chemistry Laboratory Equipment

Test Tube Holder

A test tube holder is used to hold a test tube while it is being heated. It is also used to support a crucible while heating it on a burner.



A test tube holder is used to hold a test tube while it is being heated. It is also used to support a crucible while heating it on a burner.

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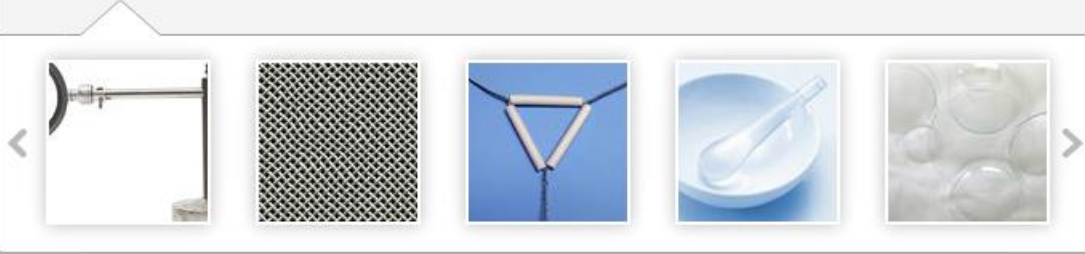

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Ring Stand

Chemistry Laboratory Equipment

Ring Stand

A ring stand is used to support various lab glassware and their clamps.



A ring stand is used to support various lab glassware and their clamps.


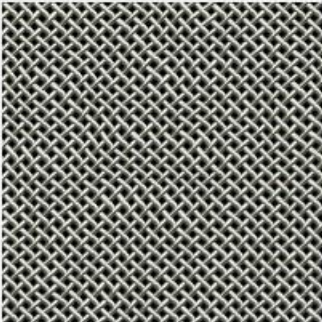
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Wire Gauze

Chemistry Laboratory Equipment

Wire Gauze

Wire gauze is used to spread the heat of a flame on a gas burner.



Wire gauze is used to spread the heat of a flame on a gas burner.

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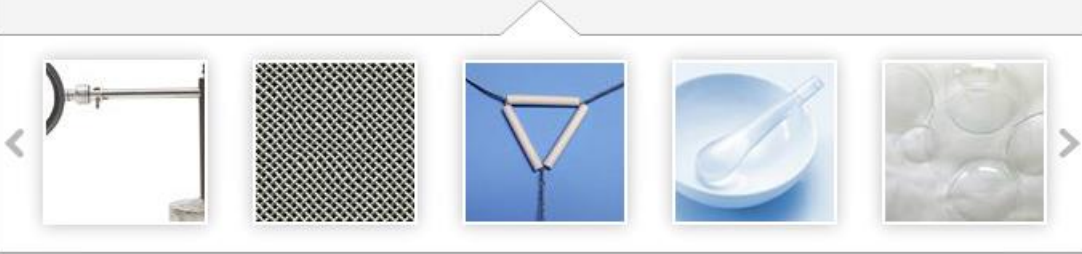

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Clay Triangle

Chemistry Laboratory Equipment

Clay Triangle

A clay triangle is used to support a crucible while heating it on a gas burner.



A clay triangle is used to support a crucible while heating it on a gas burner.

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Crucible

Chemistry Laboratory Equipment

Crucible

A crucible is a dish used to hold small amounts of substances during reactions. A crucible may also have a lid.



A crucible is a dish used to hold small amounts of substances during reactions. A crucible may also have a lid.



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Watch Glass

Chemistry Laboratory Equipment

Watch Glass

A watch glass is a small glass dish used to cover an evaporation dish or beaker.



A watch glass is a small glass dish used to cover an evaporation dish or beaker.

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Wash Bottle

Chemistry Laboratory Equipment

Wash Bottle

A wash bottle is a plastic bottle which holds water which can be used to rinse out lab glassware.



A wash bottle is a plastic bottle which holds water which can be used to rinse out lab glassware.



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Dropping Pipette

Chemistry Laboratory Equipment

Dropping Pipette

A dropping pipette is used to transfer small amounts of liquid.



A dropping pipette is used to transfer small amounts of liquid.