

Objective

- Follow safety practices during laboratory procedures

Text:

Lab Safety Procedures

This module will test your ability to perform lab procedures in a safe manner.

Click the arrow when you are ready to begin.

Visual:



Programming Notes:

- *Arrow takes you to next screen (screen 2)*

Objective

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Text:**Question:**

Today's experiment will test the reaction between an acid and a metal. You will heat the acid, then drop crystals of zinc into the warm solution.

If you would like to review the full lab procedures, click the "Lab Procedures" button at any time.

What should you do first?

- A. Put on safety equipment, including goggles, an apron, and gloves
- B. Get 50 mL of sulfuric acid and a small spoonful of zinc crystals
- C. Set up the Bunsen burner and tripod. Light the Bunsen burner.

Visual:**Programming Notes:**

- *Clicking "Lab Procedures" opens the website*
- *Clicking A takes you to screen 3*
- *Clicking B takes you to screen 4*
- *Clicking C takes you to screen 5*

Objective

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Text:**Feedback:**

Good! You should always put safety equipment on before handling any glassware, equipment, and reagents.

Now what should you do?

- A. Get 50 mL of sulfuric acid and a small spoonful of zinc crystals
- B. Set up the Bunsen burner and tripod. Light the Bunsen burner.

Visual:**Programming Notes:**

- *Clicking "Lab Procedures" opens the website*
- *Clicking A takes you to screen 6*
- *Clicking B takes you to screen 7*

Objective

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Text:

Feedback:

Oh no! You spilled some sulfuric acid as you poured. Since you didn't put your safety equipment on first, you have acid burns on your hands. This is why it is VERY important to put on safety equipment before you begin an experiment. Always wear aprons and goggles, and put gloves on before handling dangerous chemicals.

Click the button to try again.

Visual:



Programming Notes:

- *Clicking "Lab Procedures" opens the website*
- *Clicking Try Again takes you to screen 2*

Objective

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Text:**Feedback:****Feedback:**

All right. The Bunsen burner is burning nicely. Now what should you do?

Now what should you do?

- A. Get 50 mL of sulfuric acid and a small spoonful of zinc crystals
- B. Turn off the Bunsen burner and then get the reagents

Visual:**Programming Notes:**

- *Clicking "Lab Procedures" opens the website*
- *Clicking A takes you to screen 8*
- *Clicking B takes you to screen 9*

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Text:**Feedback:**

Good! You now have all of the reagents you will need for this experiment.

What should you do next?

- A. Set up the Bunsen burner and tripod. Then, light the Bunsen burner.
- B. Light the Bunsen burner. Then, set up the tripod.

Visual:**Programming Notes:**

- Clicking "Lab Procedures" opens the website
- Clicking A takes you to screen 10
- Clicking B takes you to screen 11

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Text:**Feedback:**

All right. The Bunsen burner is burning nicely.

What should you do next?

- A. Get 50 mL of sulfuric acid and a small spoonful of zinc crystals
- B. Turn off the Bunsen burner and then get the reagents

Visual:**Programming Notes:**

- *Clicking "Lab Procedures" opens the website*
- *Clicking A takes you to screen 12*
- *Clicking B takes you to screen 13*

Objective

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Text:

Feedback:

Oh no! You walked away from the burning Bunsen burner. Something knocked it over, and started a fire!

NEVER leave a burning Bunsen burner unattended!

Click the button to try again.

Visual:



Programming Notes:

- *Clicking "Lab Procedures" opens the website*
- *Clicking Try Again takes you to screen 2*

Objective

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Text:**Feedback:**

It was a good idea to turn off the Bunsen burner. Leaving a burning Bunsen burner unattended can lead to a fire.

However, you spilled some sulfuric acid as you poured. Since you didn't put your safety equipment on first, you have acid burns on your hands. This is why it is VERY important to put on safety equipment before you begin an experiment. Always wear aprons and goggles, and put gloves on before handling dangerous chemicals.

Click the button to try again.

Visual:**Programming Notes:**

- *Clicking "Lab Procedures" opens the website*
- *Clicking Try Again takes you to screen 2*

Objective

- Follow safety practices during laboratory procedures

Text:

Feedback:

Great job! You completed the lab safely.

Click the button to try again.

Click Exit to close the lesson.

Visual:



Programming Notes:

- *Clicking Try Again takes you to screen 2*
- *Clicking Exit closes the presentation*

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Text:

Feedback:

Oh no! You burned your hand placing the tripod over the Bunsen burner.

NEVER light a Bunsen burner until the tripod is in place, if you are using a tripod.

Click the button to try again.

Visual:



Programming Notes:

- *Clicking "Lab Procedures" opens the website*
- *Clicking Try Again takes you to screen 2*

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Text:

Feedback:

Oh no! You walked away from the burning Bunsen burner. Something knocked it over, and started a fire!

NEVER leave a burning Bunsen burner unattended!

Click the button to try again.

Visual:



Programming Notes:

- *Clicking "Lab Procedures" opens the website*
- *Clicking Try Again takes you to screen 2*

Objective

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Text:

Feedback:

Great job! You completed the lab safely.

Click the button to try again.

Click Exit to close the lesson.

Visual:



Programming Notes:

- *Clicking Try Again takes you to screen 2*
- *Clicking Exit closes the presentation*