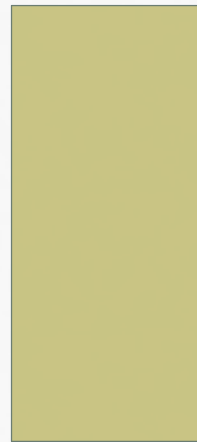
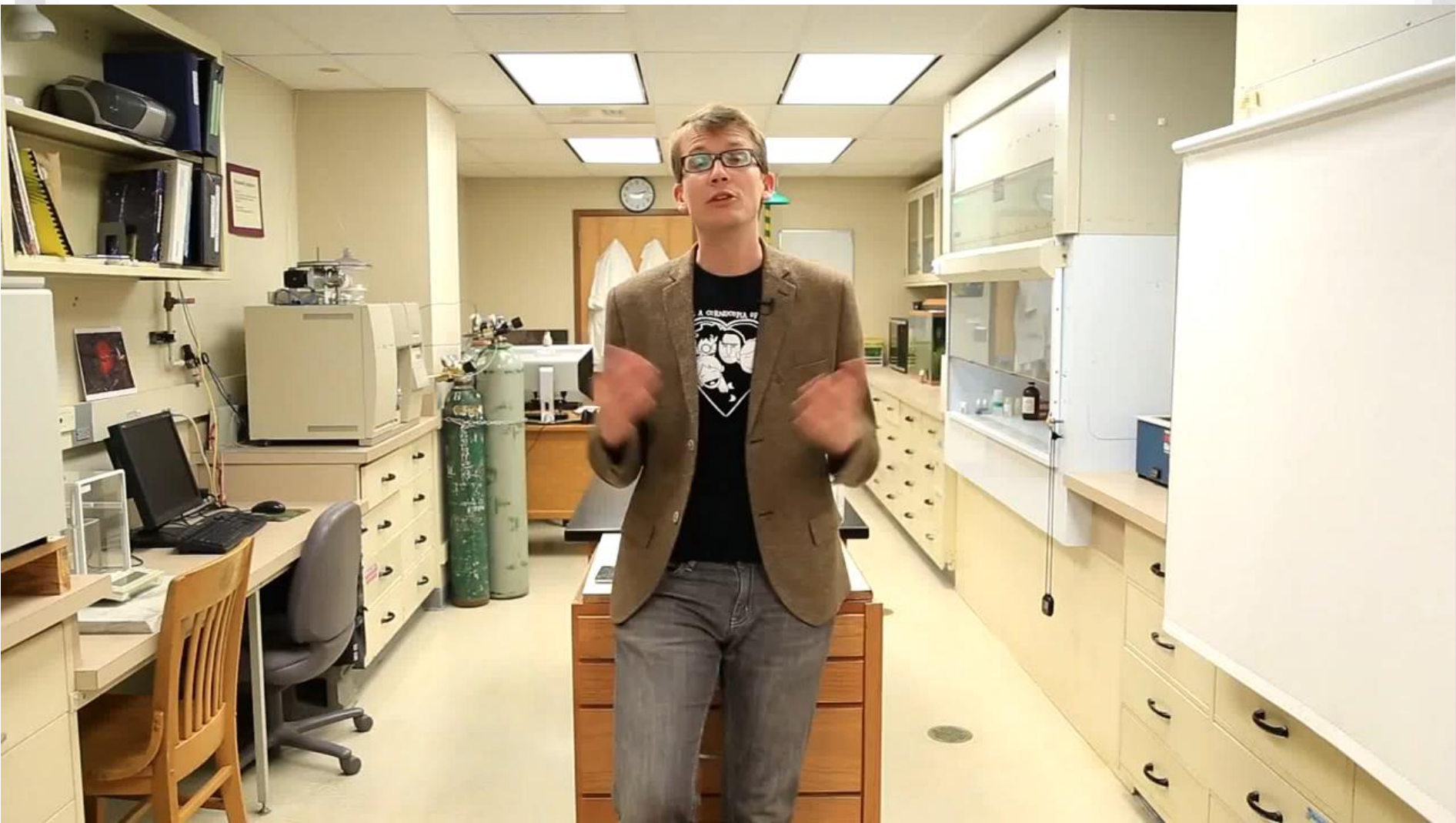


LAB SAFETY





SAFETY RULES

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Report any accident, injury, or incorrect procedure immediately to your teacher.

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Never touch or ingest any chemical substance or eat or drink anything in the lab.

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Perform experiments only under the direction of your teacher.

Be protected against spills and accidents.

Never touch or ingest any chemical substance or eat or drink anything in the lab.

Avoid potential dangers.

SAFETY RULES

Report any accident, injury, or incorrect procedure immediately to your teacher.

Perform experiments only under the direction of your teacher.

Be protected against spills and accidents.

Never touch or ingest any chemical substance or eat or drink anything in the lab.

Avoid potential dangers.

Know the location of the fire alarm, phone, nurse's office.

SAFETY ROUTINES

Be
prepared

SAFETY ROUTINES

Be
prepared

- study your lab assignment beforehand

SAFETY ROUTINES

Be
prepared

- study your lab assignment beforehand
- Know your chemicals

SAFETY ROUTINES

Heat
safely

- Light
match first

SAFETY ROUTINES

Heat
safely

- Light match first
- Don't heat thick glassware

SAFETY ROUTINES

Heat
safely

- Light match first
- Don't heat thick glassware
- Heat slowly and keep object moving

SAFETY ROUTINES

Heat
safely

- Light match first
- Don't heat thick glassware
- Heat slowly and keep object moving
- Point test tube away from people

SAFETY ROUTINES

Heat
safely

- Light match first
- Don't heat thick glassware
- Heat slowly and keep object moving
- Point test tube away from people
- Never leave a flame unattended

SAFETY ROUTINES

Handle
chemicals
and
equipment
carefully

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Handle
chemicals
and
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- Chemicals must be in labeled containers

SAFETY ROUTINES

Handle
chemicals
and
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- Chemicals must be in labeled containers
- Bring test tubes, etc., to the supply table

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Handle
chemicals
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- Chemicals must be in labeled containers
- Bring test tubes, etc., to the supply table
- Don't return unused chemicals

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Handle
chemicals
and
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carefully

- Chemicals must be in labeled containers
- Bring test tubes, etc., to the supply table
- Don't return unused chemicals
- Waft to note odor

SAFETY ROUTINES

Handle
chemicals
and
equipment
carefully

- Chemicals must be in labeled containers
- Bring test tubes, etc., to the supply table
- Don't return unused chemicals
- Waft to note odor
- Clean spills

SAFETY ROUTINES

Handle
chemicals
and
equipment
carefully

- Chemicals must be in labeled containers
- Bring test tubes, etc., to the supply table
- Don't return unused chemicals
- Waft to note odor
- Clean spills
- Acid to water to dilute

SAFETY ROUTINES

Emergencies

SAFETY ROUTINES

Emergencies

- Fire: get teacher's attention. Wrap in blanket.

SAFETY ROUTINES

Emergencies

- Fire: get teacher's attention. Wrap in blanket.
- Eyes: use eye-wash station

SAFETY ROUTINES

Disposal

SAFETY ROUTINES

Disposal

- Solids in trash cans

SAFETY ROUTINES

Disposal

- Solids in trash cans
- Flush soluble liquids with lots of water

SAFETY ROUTINES

Disposal

- Solids in trash cans
- Flush soluble liquids with lots of water
- Use waste containers for things that shouldn't go in sink

SAFETY ROUTINES

Disposal

- Solids in trash cans
- Flush soluble liquids with lots of water
- Use waste containers for things that shouldn't go in sink
- Put broken glass in designated container.

SAFETY ROUTINES

Clean
up

SAFETY ROUTINES

Clean
up

- Turn off gas and water

SAFETY ROUTINES

Clean
up

- Turn off gas and water
- Return stuff

SAFETY ROUTINES

Clean
up

- Turn off gas and water
- Return stuff
- Clean your work area

SAFETY ROUTINES

Clean
up

- Turn off gas and water
- Return stuff
- Clean your work area
- Return goggles

SAFETY ROUTINES

Clean up

- Turn off gas and water
- Return stuff
- Clean your work area
- Return goggles
- Wash hands!

SAFETY VIDEOS (ABOUT 10 MINUTES EACH)

HIT ESCAPE, THEN CLICK



Zombie College- The 5 Rules of Lab Safety.mp4

[Experimenting with danger 24 min](#)

[Lab Safety Awareness, pt 1 \(16 min\)](#)

[Flinn Bad Safety 13 min](#)

[Lab Safety Awareness, pt 2 \(23 min\)](#)

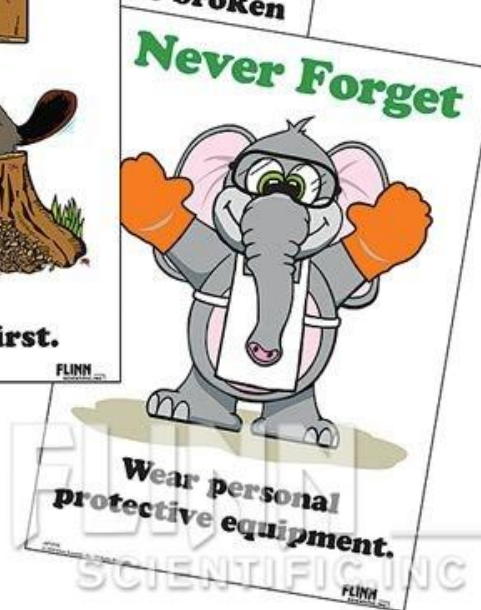
[Nice 7 minute overview](#)

SAFETY POSTERS

- Make 2. Try making one about something you don't think everyone will do. Use your safety guidelines for ideas. **Make sure to include your name!**



LAB SAFETY POSTERS



FLINN SCIENTIFIC INC

SAFETY QUIZ

Tomorrow*

* or the next day we meet

REVIEW

WHAT SHOULD YOU DO IF YOU SEE AN
UNINTENDED FIRE?

WHY SHOULD HAIR BE PULLED BACK
IN LAB?

WHAT ARE SOME OTHER COMMON
HAZARDS THAT DRESSING PROPERLY
COULD AVOID?

WHAT EQUIPMENT IS NEEDED FOR
MOST LABS?

WHY CAN'T YOU TAKE YOUR GOGGLES
OFF WHEN YOU FINISH YOUR LAB?

WHY SHOULD YOU NOT SIT ON A LAB
BENCH?

WHEN DILUTING AN ACID, DO YOU
ADD ACID TO WATER OR WATER TO
ACID?

HOW DO YOU SMELL A CHEMICAL?

WHEN CAN YOU EAT OR DRINK IN THE
LAB?

Never!

WHAT SHOULD YOU DO IF THERE'S A
CHEMICAL SPILL?

WHAT SHOULD BE DONE IF THERE'S
BROKEN GLASS?

WHAT PROCEDURES SHOULD BE
FOLLOWED AFTER COMPLETING A
LAB?

TO WHOM DO YOU REPORT ANY
ACCIDENT, INJURY OR INCORRECT
PROCEDURE?

IF A SUBSTANCE SPLASHES IN YOUR
EYE, WHAT'S THE FIRST THING YOU
SHOULD DO?

WHAT SHOULD YOU DO WITH
CHEMICALS LEFT OVER AFTER DOING
A LAB?

WHEN SHOULD YOU READ THE LAB
HANDOUT AND PLAN YOUR
STRATEGY?

WHEN CAN YOU LEAVE AN OPEN
FLAME UNATTENDED?

IF YOUR LAB PARTNER'S SHIRT
CATCHES FIRE, WHAT SHOULD YOU
DO?

IS WEARING SAFETY GOGGLES
OPTIONAL?

WHEN LIGHTING A BUNSEN BURNER,
SHOULD YOU LIGHT THE MATCH FIRST
OR TURN ON THE GAS FIRST?

SHOULD PYREX AND OTHER
GLASSWARE DESIGNED TO BE HEATED,
BE HEATED AS FAST AS POSSIBLE?

LAB SAFETY POSTERS

- Make sure your name is on your poster
- Include a title
- Illustrations are good
- Color is good
- Creativity is good
- Keep it simple and readable from several feet away

*make
2 posters*

IRA REMSEN

Born in New York City in 1846.
Died in 1927.

Famous chemist who,
among many other
accomplishments,
discovered the
artificial sweetener
saccharin.

(And had a nice beard.)

