# August 2<sup>nd</sup> 2016 RIGHT NOW Warm Up

- Please get out a pencil/pen your notebook, folder, and any signed forms.
- Before class begins write down what the focus of our work time today is as well as your homework.
- WT: Lab Safety and Scientific Method
- <u>HW:</u> Create a lab safety poster/meme/slogan to encourage proper safety protocols in a lab.

 List as many things incorrect in the What's Wrong lab sheet as possible.

I will be able to:

explain the process that scientific method uses as well as the safety protocols that are necessary to operating in a science lab.



Pick 5 safety symbols. Give one example of when the symbol would be present in a lab.



What is the safety symbol show below and why should it be included in labs today?



### **Disposal Alert**



This symbol appears when care must be taken to dispose of materials properly.

### **Biological Hazard**

**Open Flame Alert** 



This symbol appears when there is danger involving bacteria, fungi, or protists.

This symbol appears when use of an

open flame could cause a fire or

## **Animal Safety**



This symbol appears whenever live animals are studied and the safety of the animals and the students must be

### **Radioactive Safety**



This symbol appears when radioactive materials are used.

### **Clothing Protection Safety**



**Fire Safety** 

This symbol appears when substances used could stain or burn clothing.

This symbol appears when care

### Thermal Safety



This symbol appears as a reminder to use caution when handling hot objects.

### Sharp Object Safety



This symbol appears when a danger of cuts or punctures caused by the use of sharp objects exists.

### **Fume Safety**



This symbol appears when chemicals or chemical reactions could cause dangerous fumes.

### **Electrical Safety**



This symbol appears when care should be taken when using electrical equipment.

### Plant Safety



This symbol appears when poisonous plants or plants with thorns are handled.

# **Eye Safety**



This symbol appears when a danger to the eyes exists. Safety goggles should be worn when this symbol appears.

### **Poison Safety**



This symbol appears when poisonous substances are used.

### **Chemical Safety**



This symbol appears when chemicals used can cause burns or are poisonous if absorbed through the skin.



an explosion.



### Explosion Safety



# an explosion.

This symbol appears when the misuse of chemicals could cause





# The Scientific Method Two Ways



# Warm UP Competition!

Identify and explain as many of the incorrect lab procedures as possible. This is timed and a competition.

- When Phil wraps it up so should you.
- Enjoy the musical stylings of Phil Collins as you work. This song is "In the Air Tonight" if you want to find it for yourself.



# August 3rd 2016RIGHT NOWWarm Up

- Please get out a pencil/pen your notebook, folder, and any signed forms.
- Before class begins write down what the focus of our work time today is as well as your homework.
- WT: Lab Safety and Scientific Method
- <u>HW:</u> Create a lab safety poster/meme/slogan to encourage proper safety protocols in a lab.

- What is the most important safety rule?
- Give 2 reasons that justify your opinion.

# I will be able to:

explain the process that scientific method uses as well as the safety protocols that are necessary to operating in a science lab.

# Homework 1 DUE FRIDAY!!

Finish identifying and explaining the lab violations in the picture. Color your safety sheet and put it in your Matter Work Folder.



# Homework 2 DUE FRIDAY!

The students will create a lab safety poster/meme/slogan to encourage proper safety protocols in a lab.





Strictly adhere to proper attire before entry



For long hair only



Long Pents/Trousers



and Report Manufactures





# THE INFORMATION YOU SEEK IS IN THE LAB DIRECTIONS?

WHAT IFITOLD YOU



# A Beach Story

- Imagine that you and a friend are visiting a beach in Maine for the holidays. Lights adorn houses and you go for a walk to admire the decor. Bundled up in warm clothing, heads bent into the wind, you and your friend walk along the beach. Drifts of snow rise against a fence that in the summer once held back dunes of sand. Beyond the fence the glow of a row of beach houses draws your attention. There, from the eaves of the houses hangs glistening strips of ice. Only yesterday these icicles had been a mass of melting snow. Throughout the night the melted snow continually dripped freezing into lovely shapes. Near the ocean's edge, you spy a small puddle of sea water. Surprisingly, it was not frozen like the icicles.
- What could be the reason for this curious observation?

# Think pair Share:

Create a hypothesis about the circumstances surrounding the beach story. Remember the theories that we already discussed in class.



# Set up our story in the Scientific Method





- In 3 to 4 sentences explain and defend your opinion.
- •What makes a good hypothesis?
- •How should a good hypothesis be written?

# Review

- •A hypothesis is an educated guess about how things work.
- Most of the time a hypothesis is written like this: "If [I do this] \_\_\_\_\_, then \_\_\_\_[this] \_\_\_\_\_ will happen." ...
- Your hypothesis should be something that you can actually test, what's called a testable hypothesis.

# Tomorrow we are taking our Pre test! Check out My website to preview Friday's power point DRY MIX!