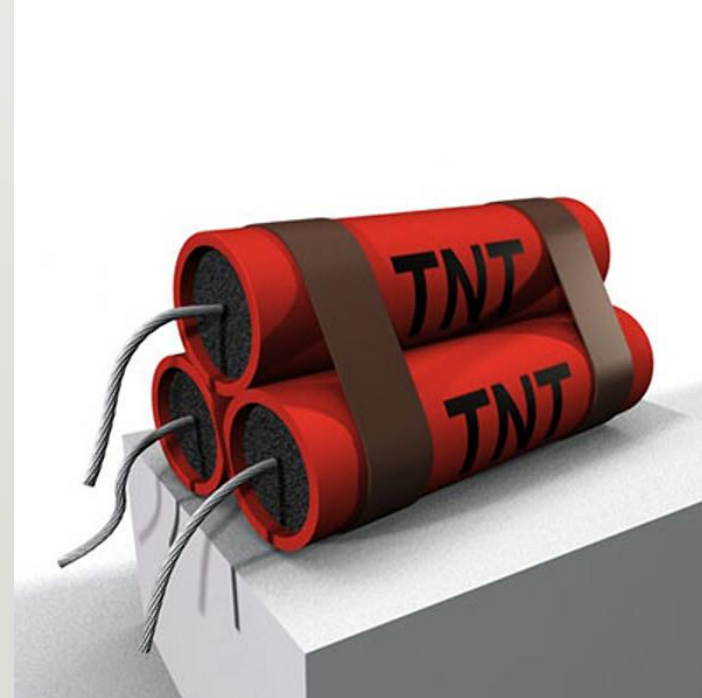


SCIENCE LAB SAFETY & WHMIS



QUESTION OF THE DAY

- Which of the following contains the same chemical energy as 7 grams of TNT?
 1. 7g of gun powder
 2. 7g of a marshmallow
 3. 7g of a potato
 4. 7g of hairspray



DANGEROUS MARSHMALLOWS?

<https://www.youtube.com/watch?v=4mVxL8upOPo>

LAB SAFETY RULES – HOW MUCH DO YOU REMEMBER?

- You and your table partner will be assigned one lab safety rule topic
 - Come up with as many rules as you can related to that topic
 - Role 1: writer
Role 2: speaker
 - After ~5 minutes, we will discuss as a class
1. General precautions
 2. Protective clothing
 3. First aid
 4. Using equipment
 5. Heating and fire safety
 6. Sharp materials
 7. Working with chemicals
 8. Cleaning up

DUA LIPA PARODY

https://www.youtube.com/watch?v=BRDApYgvDqQ&ab_channel=AsapSCIENCE


WHMIS MATCHING


- Work with your table partner to match the WHMIS symbols to their name and description
- Call the teacher over when finished to have your answers checked


WHMIS SYMBOLS





- WHMIS stands for “Workplace Hazardous Materials Information System” and they use symbols in order to identify dangerous materials. These symbols can be found on labels of common household items and chemicals.


Symbol	Name	Definition	Example of products that have this symbol
	Compressed Gas	<ul style="list-style-type: none">- Gas under pressure- Heat may cause the container to explode.- A drop/impact may cause the container to explode.	<ul style="list-style-type: none">- Propane- Fire extinguishers- Helium gas


Symbol	Name	Definition	Example of products that have this symbol
	Flammable	<ul style="list-style-type: none">- May burn at low temperatures.- Sparks, flames, friction may ignite it.	<ul style="list-style-type: none">- Gasoline- Diesel- OFF bug repellent


Symbol	Name	Definition	Example of products that have this symbol
	Oxidizing Hazard	<ul style="list-style-type: none">- Speed up development of a fire and make it more intense- Cause substances that don't usually burn to readily burn in air	<ul style="list-style-type: none">- Chlorine- Bleach


Symbol	Name	Definition	Example of products that have this symbol
	Poisonous	- May cause death/toxicity with short exposure to small amounts.	<ul style="list-style-type: none">- Bleach- WD-40


Symbol	Name	Definition	Example of products that have this symbol
	Health Hazard	- Suspected to cause serious health effects (cancer, organ damage, genetic defects) after repeated exposure	- Formaldehyde

Symbol	Name	Definition	Example of products that have this symbol
	Hazard	- May cause irritation to skin and eyes.	<ul style="list-style-type: none">- Draino- Toilet bowl cleaners- Drain openers

Symbol	Name	Definition	Example of products that have this symbol
	Corrosive	- Corrosive damage to metals, eyes, skin.	<ul style="list-style-type: none">- Chlorine- Bleach- NaOH

Symbol	Name	Definition	Example of products that have this symbol
	Explosive	<ul style="list-style-type: none">- May be a self-reactive substance- Explosion may cause damage to surroundings	<ul style="list-style-type: none">- OFF bug spray- Hairspray

Symbol	Name	Definition	Example of products that have this symbol
 The image shows the standard biohazard symbol, which consists of a black biohazard icon (three interlocking circles) centered within a thick black oval border.	Biohazardous Infectious Materials	- Organisms/toxins that can cause diseases in people or animals	<ul style="list-style-type: none">- Viruses- Bacteria- Mold

Symbol	Name	Definition	Example of products that have this symbol
 * The symbol consists of a red diamond border. Inside the diamond, there is a black silhouette of a dead tree on the left and a dead fish on the right, both resting on a small black ground line.	Environmental Hazard	<ul style="list-style-type: none">- May cause damage to the aquatic environment (fish, crustacean, or aquatic plants)	<ul style="list-style-type: none">- Heavy metals (mercury)- Pesticides



WHMIS SAFETY SCENARIOS

- Working with a partner
- Read through the scenario
- Draw/name the WHMIS symbols that should be found on that container
- Describe any safety precautions that should be taken when using the product
- Hand in when finished!