# CH2: taking safety into account

## **ACTIVITY 1:** Lab safety

Partie 1: Personal Protective Equipment (PPE)

Watch the two videos in order to find out the PPE you have to wear in a laboratory:

– PPE\_Lab\_Safety\_video\_Part1 : https://www.youtube.com/watch?v=GjAD83B4JaY

Health and Safety Essentials: Laboratory Best (from the beginning to 1'33)
 https://www.youtube.com/watch?v=RhIOYhOvCsQ

1. Find out the right PPE in a lab and fill in the diagram below:



Sources: wikimedia commons

Partie 2: Safety equipment

Watch the video in order to find out the safety equipment available in a general chemistry lab:

Equipment / Lab Safety Video Part 2 : https://www.youtube.com/watch?v=liHEYtnKfF0

2. Find out the safety equipment found in the lab and complete the picture below :



https://www.dartmouth.edu/~chemlab/info/safety/equipment.html

- **3.** What is the eyewash station used for?
- **4.** How long do you have to rinse your eyes in the eyewash station?
- **5.** What are the 4 types of fire?

#### Partie 3: Your behavior in a lab

Watch the video in order to find out the appropriate behavior in a chemistry lab:

Behavior/Lab Safety Video Part 3: https://www.youtube.com/watch?v=e7VkluiT1kU

**6.** How should you behave in order to ensure that the lab is a safe environment for everyone? (Fill in the blanks)

_	First consideration is to follow the writtenstep-by-step
-	Never or while in the lab
_	Never
_	Good
_	Never place any chemical bottles
_	If you do make a spill, check the for the appropriate response. And clean it immediatly and place a sign
_	Keep your
_	Don't place materials of the workbench
_	Never try to
_	After you've finished an experiment, and clean, return reagents
_	If a safety violation occurs, or you notice any unsafe condition in the lab, report it immediately to

#### Partie 4: Interactive eLearning Tools => Lab Safety

To conclude this activity, you have to obtain your certificate of completion.

It will prove that you know how to:

- Dress properly before entering the lab
- Locate lab safety equipment in your own lab
- Keep your lab clean and free of clutter
- Respond to hazardous situations

#### Go to:

http://www.ncbionetwork.org/educational-resources/elearning/interactive-elearning-tools/lab-safety

Then « launch App »

Then « Enter the lab »

Then follow instructions and do successively:

- Proper Dress
- Housekeeping
- Safety Equipment
- Mixing

#### At the end of the activity:

- Click « View Certificate » to print your certificate of completion
- Click « Print Lab Notes » to obtain your Lab Notes

# **Activity summary**

## What you must remember:

Vocabulary associated with PPE, Safety equipment and behavior in a lab

### Skills linked to the curriculum:

Compétences	Capacités à maîtriser
– APP	<ul> <li>Connaître et savoir appliquer les règles de sécurité au laboratoire</li> <li>Savoir adopter une attitude responsable au laboratoire</li> </ul>
- ANA	<ul> <li>Savoir réagir face à une situation dangereuse au laboratoire, d'une manière autonome</li> </ul>