



# Health and Safety in Science

Science can include lots of practical activities where we investigate the world around us. It can help us to understand concepts if we can change variables, make observations, and collect and explain our results.

These practical activities will include moving round a laboratory, working in teams and using different equipment and chemicals.

To keep us safe, there are some different rules when working in a science laboratory compared to other classrooms. These are really important to ensure there are no accidents and no one gets hurt.

This activity is the first step in learning how to be a scientist at Appleton Academy.

Work your way through the activities on the sheets below and put your answers into the form you can reach through this link:

[https://forms.office.com/Pages/ResponsePage.aspx?id=0VteuAAfPE2Vg0EaO-D3Z\\_vsAjFk2w9Jn\\_Aq\\_tHS\\_aJUODNPN0Q2M1ZWMEZKOE3UUIVVzJZUjc3NC4u](https://forms.office.com/Pages/ResponsePage.aspx?id=0VteuAAfPE2Vg0EaO-D3Z_vsAjFk2w9Jn_Aq_tHS_aJUODNPN0Q2M1ZWMEZKOE3UUIVVzJZUjc3NC4u)

## Learning Objectives:

- Identifying laboratory safety rules
- Identifying a range of scientific equipment and explaining their uses
- Identifying the hazard symbols you might see in a laboratory

## Task 1: Lab Safety

You will usually find a set of 'Lab Rules' in a science lab. They are there for your safety! The drawing below shows a lab where there are no safety rules.

### TASK:

Write down a list of 10 things going wrong in this lab.

For each of your answers, write a safety rule.



## Task 2: Lab Equipment

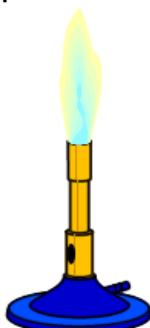
**Task 2:** Search “School Lab equipment” in Google Images and find the names for the common pieces of equipment below.

For each one, explain what it is used for in a science laboratory.

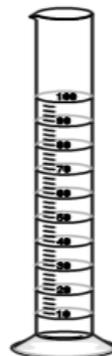
11.



12.



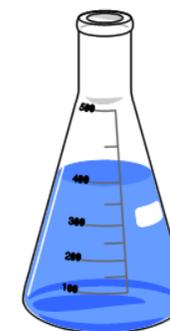
13.



14.



15.



16.



17.



18.



19.



20.



## Task 3: Hazard Symbols

In our science activities, we use a range of chemicals which can be harmful to us, others or the environment. So we know what type of safety precautions to use, all chemicals are labelled using Hazard Symbols. These are pictures used by Scientists all over the world to show what hazards are associated with that chemical.

**Task:** Use the website <https://www.bbc.co.uk/bitesize/guides/zsfpb82/revision/1> to identify each of the hazard symbols below and then describe the hazard it presents.

The first one has been completed for you to help. Put your answers in the form by following the link on the first page.

Symbol	Name	Hazard
21. 	Moderate health hazard	Possible skin irritation
22. 		
23. 		

24. 		
25. 		
26. 		
27. 		