

# Lab Safety

In the science lab we wear PPE. Can anyone guess what PPE means?

**What PPE is required to protect the equipment?**

- Safety goggles
- Mask
- Ear plugs / hearing protection
- Safety gloves
- Closed-toed shoes
- Hair net / helmet
- Lab coat



# Lab Safety

Can you guess what the symbols mean?



## **HIGHLY FLAMMABLE**

Substances that  
easily catch fire.



## **CORROSIVE**

Substances that  
attack and destroy  
living tissues,  
including the eyes  
and skin.



## **TOXIC**

Can cause death  
when swallowed,  
breathed in or  
absorbed through  
the skin.



1) Identify the three PPE above:

2) What do the safety symbols below mean?



3) What are the steps to the 'Scientific Method'?


4) What are the variables involved in a fair test?

5) In a fair test, what is name of the variable that is changed and how many variable is changed?

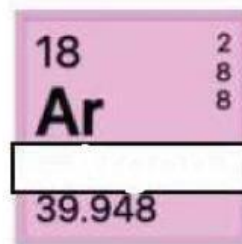
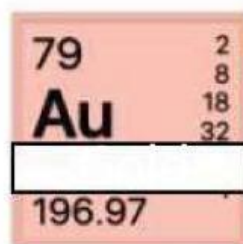
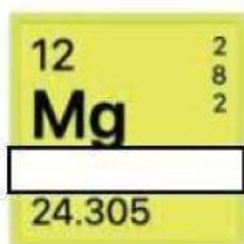
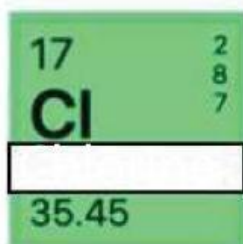
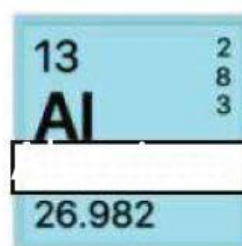
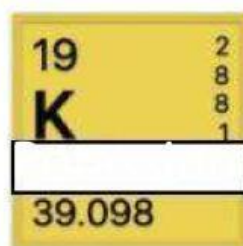
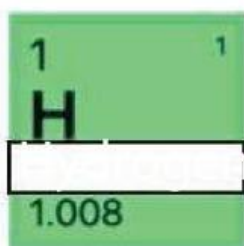
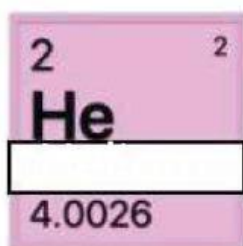
6) Tulip flowers that get more nutrients grow bigger than tulip flowers that get less nutrients. What is the independent variable in this experiment? What is the dependent variable? What variables should be controlled?

7) What is an element?

8) What is a compound?

9) What is a mixture?

10) Identify the name of the elements below:



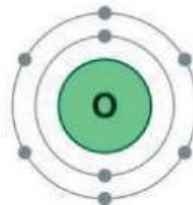
11) Helium, Hydrogen, Argon, Chlorine are examples of what?

12) Aluminum, Potassium, Magnesium, Gold are examples of what?

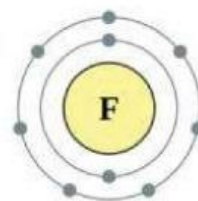
13) List the physical properties of metal.

- 
- 
- 
-

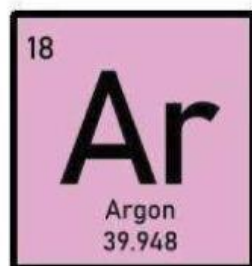
14) How many valence electrons and electron shells does Oxygen have?  
What group and period does it belong to?



15) How many valence electrons and electron shells does Fluorine have?  
What group and period does it belong to?



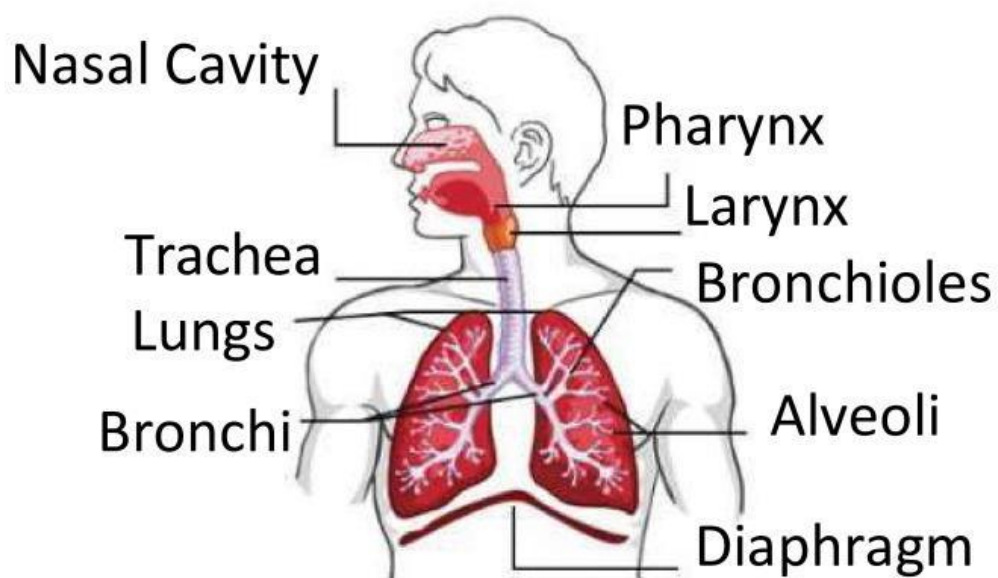
16) How many protons are in argon?



17) What is cellular respiration?

## Part 1: Respiratory Organs

18. Label the parts of the Respiratory System below.



19) A) What is the chemical equation for aerobic respiration?



B) Underline the reactants and circle the products.

20) What is Germination?

21) Germination requires what in order for it to begin?

22) What is an adaptation?

23) Where does photosynthesis happen in most plants?

24) What part of the plant is used to make the seeds?

25) What part of the plant is used to store the seeds?

26) What part of the plant is used to anchor the plant?