

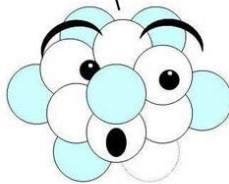
# Year 7 - MYP 1

## Science

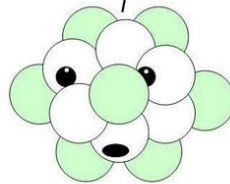
*“States of Matter  
Atoms, Elements, Compounds, Mixtures  
The periodic table”*

# Assessment

Oh my gosh, I've  
lost a neutron!



Don't worry; you  
can get a new one  
“free of charge.”

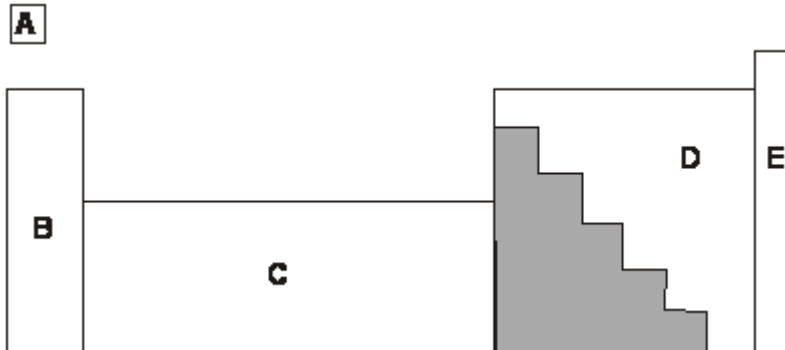


2019 - 2020

Name \_\_\_\_\_

1.

(a) The diagram below shows part of the periodic table of elements.

The shaded area contains **only** metal elements.Two other areas also contain **only** metal elements.Which **areas** contain only metal elements?Tick the **two** correct boxes.A B C D E 

(b) Copper and tin are metals.

Give one reason to explain why we use copper to make electrical wires.

.....

Give one reason to explain why we use copper and tin as a mixture to make bells

.....

Marks 4

(b) Sulfur is a non-metal.

Give **one** property of sulfur that shows it is a non-metal

.....

Marks 1

2. Gold and silver are used to make jewelries (rings, earrings etc.). Are they metals or non-metals? Give two properties of these two elements (apart from their price...).

Marks 4

3. Use the given words to fill in the gaps: families, seven, eighteen, lines, periods, family.

The periodic table is organized into \_\_\_\_ horizontal \_\_\_\_\_ which are called \_\_\_\_\_ and \_\_\_\_\_ columns which are called \_\_\_\_\_. Elements in the same \_\_\_\_\_ have similar physical and chemical properties.

Marks 3

4. Use your periodic table to find the names and the atomic number of these twelve common elements. Follow the example:

Symbol	Name	Atomic number
Ag	Silver	47
C		
N		
Fe		
Al		
Li		
O		

Symbol	Name	Atomic number
P		
H		
He		
Si		
Na		
Cl		

Marks 6

5. Which of the following is **NOT** a gas?

- Air
- Carbon dioxide
- Sand

Marks 1

6. Which material is a solid?

- Lemon juice
- Cooking oil
- Bronze kettle

Marks 1

7. Which one of these, best describes a solid?

- My particles are packed tightly together. I keep my shape.
- My particles are loosely packed. I take the shape of my container.
- My particles have lots of room. I try to spread out in every direction.

Marks 1

8. Which one of these, best describes a gas?

- My particles are packed tightly together. I keep my shape.
- My particles are loosely packed. I take the shape of my container.
- My particles have lots of room. I try to spread out in every direction.

Marks 1

9. In which state are the particles only able to vibrate in a fixed position?

- solid
- liquid
- gas

Marks 1

10. Which state can be compressed or squashed easily?
- solid
- liquid
- gas

Marks 1

11. Use your periodic table to find the **symbol** and the **atomic number** for each of the named elements below.

Sodium	
Hydrogen	
Chlorine	
Helium	
Oxygen	
Silicon	
Carbon	
Calcium	

Marks 4

12. True or False

Gold is a good conductor of heat	
One of the best insulators (bad conductors) of electricity is copper.	
Sonorous is a characteristic of non-metals.	
We use metals to make bells because they ring when they are hit.	
The only liquid metal at room temperature (25°C) is Bromine.	
Carbon is a non-metal and is solid at room temperature.	
Non-metals are not shiny. They are dull.	
Steel is an element.	
Iron, cobalt and nickel are magnetic metals.	
Alloy is a mixture of metals.	

Marks 10

13. To which period does Potassium (K) belong in the Periodic table?  
Write another element that belongs to the same period.

Marks 2

14. Write two elements that belong to the 17<sup>th</sup> family. Are these elements metals or non-metals? Write two properties (characteristics) of these elements.

Marks 5

15. Write two elements that belong to the 2<sup>nd</sup> family. Are these elements good or bad conductors of heat? **Explain why.**

Marks 5

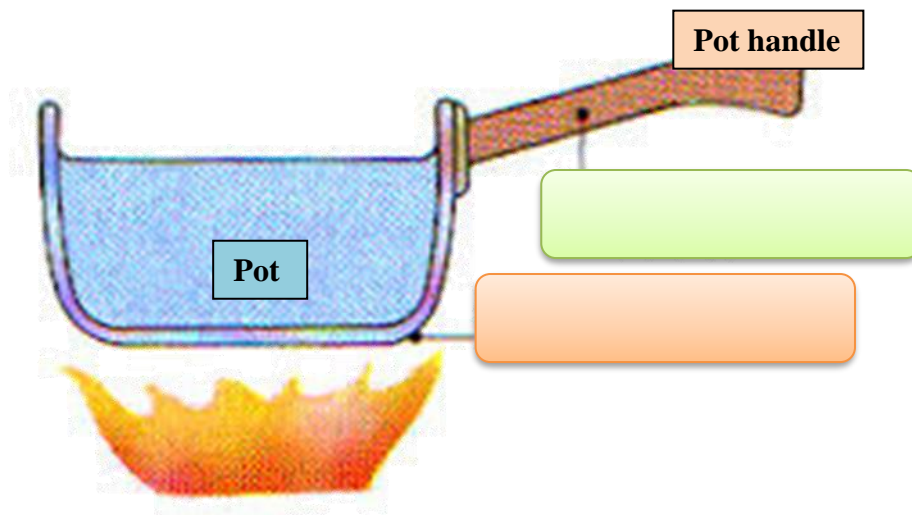
16. **Explain** why we use aluminum to make aluminum foil for our kitchen.

Marks 2

17. If we take a piece of silver and a piece of carbon **which** is going to break easily if we press them and **why**?

Marks 2

18. Explain why we use copper to make our pot and wood to make the pot handle.



Marks 2

Time to complete the test: **45 minutes**

