

# Matter and Density (Unit 5)

Matter is anything that can take up space and be \_\_\_\_\_. Everything on \_\_\_\_\_ is made of matter.

## States of matter

What states of matter are being shown in each of these examples?



The atoms here

\_\_\_\_\_



The atoms here

move \_\_\_\_\_



The atoms here

move \_\_\_\_\_

## PERIODIC TABLE OF ELEMENTS

Chemical Group Block

PubChem																																			
1	Atomic Number																17	35.45	Atomic Mass, u																18
1	Symbol																Cl		Chemical Group Block																2
H																	Chlorine																		He
Hydrogen																	Halogen																		Helium
3	4	Atomic Number														17	35.45	Atomic Mass, u														18			
Li	Be	Symbol														Cl		Chemical Group Block														Ne			
Lithium	Beryllium															Chlorine																Neon			
9	10	Atomic Number														17	35.45	Atomic Mass, u														18			
Na	Mg	Symbol														Cl		Chemical Group Block														Ar			
Sodium	Magnesium															Chlorine																Argon			
19	20	Atomic Number														17	35.45	Atomic Mass, u														18			
K	Ca	Symbol														Cl		Chemical Group Block														Kr			
Potassium	Calcium															Chlorine																Krypton			
37	38	Atomic Number														17	35.45	Atomic Mass, u														18			
Rb	Sr	Symbol														Cl		Chemical Group Block														Xe			
Rubidium	Strontium															Chlorine																Xenon			
55	56	Atomic Number														17	35.45	Atomic Mass, u														18			
Cs	Ba	Symbol														Cl		Chemical Group Block														Rn			
Cesium	Barium															Chlorine																Radon			
87	88	Atomic Number														17	35.45	Atomic Mass, u														18			
Fr	Ra	Symbol														Cl		Chemical Group Block														Og			
Francium	Radium															Chlorine																Oganesson			

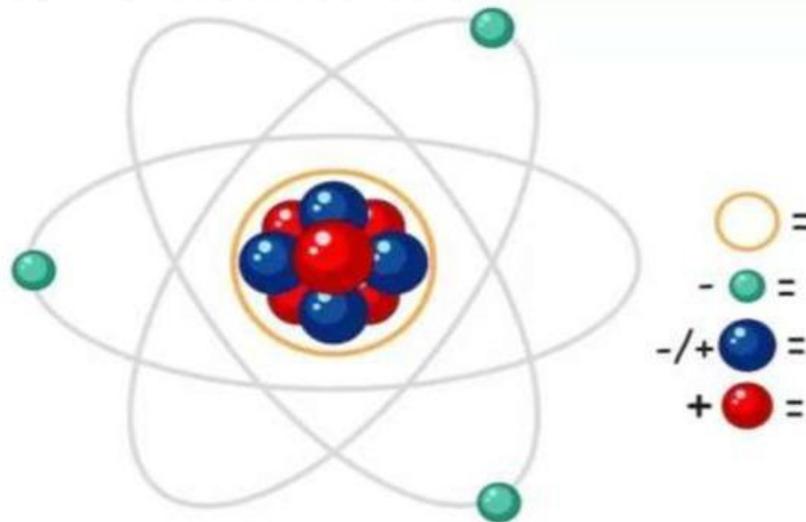
# Elements in the periodic table

*Why is Boron this number in the periodic table?*

Boron is the number \_\_\_\_ because it has \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.

*Why is Copper this number in the periodic table?*

Copper is the number \_\_\_\_ because it has \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.



ATOM Structure

*Are these materials **natural** or **synthetic**?*



# What **properties** do these different materials have?

*\*Some of these may have more than one*



Waterproof  
Synthetic  
Natural  
Soft

Absorbent  
Rigid  
Transparent  
Opaque  
Hard  
Flexible

## Written question in notebook:

1. What is the difference between a natural and a synthetic material?
2. Can you provide some examples of each and their origin?

