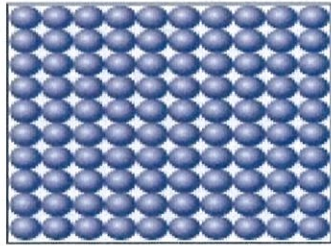
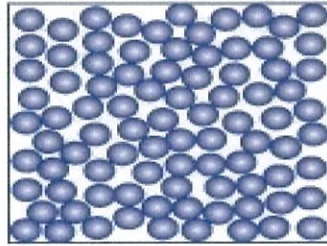


Year 8 Chemistry
Final Topic Test Revision 2019

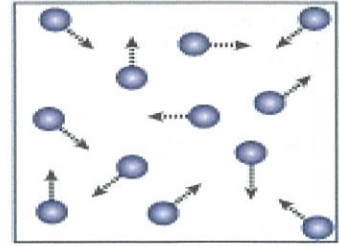
1. For each of the diagrams below describe what is happening to the particles. Make reference to relative particle distance, flowing/pouring ability and shape and volume:



Solid



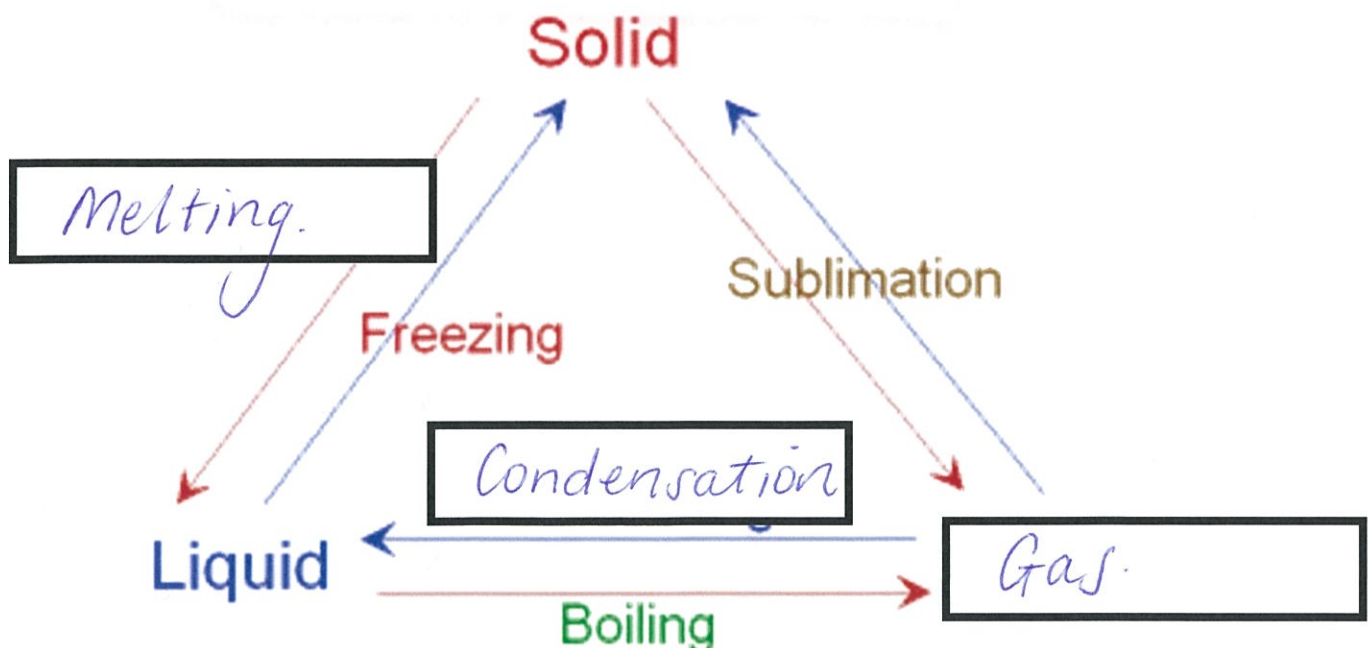
Liquid



Gas

• Particles very close together (strong attraction) • Cannot pour • Fixed shape • Fixed volume	• Particles not so close together. More space between them. (less strong attraction) • Can pour • No fixed shape • Fixed volume	• Particles have lots of space between them (depending on container) • Can pour • No fixed shape • No fixed volume
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2. Fill in the blanks below:



3. Define diffusion:

Net movement of a substance of a region of high concentration to low concentration (spread out to fill the space).

4. Fill in the blanks below:

Element Name	Element Symbol	Element Name	Element Symbol
Chlorine	Cl	Sodium	Na
Manganese	Mn	Lead	Pb
Iron	Fe	Nickel	Ni
Beryllium	Be	Copper	Cu

5. On the periodic table below, colour in where you would find metal, non-metals and metalloids:

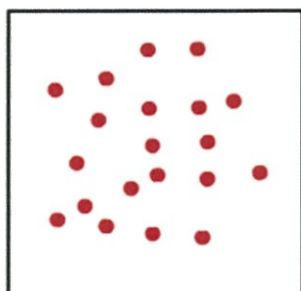


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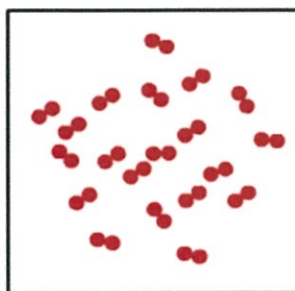
6. Identify the properties of metals, non-metals and metalloids by completing the table below:

Property	Metal	Non-metal	Metalloid
Lustre	Shine	Dull	Shine/Dull
Ductility	✓	X	X
Malleability	✓	X	X
Conducts Electricity and Heat	✓	X	Semi conductors (low heat conductivity)

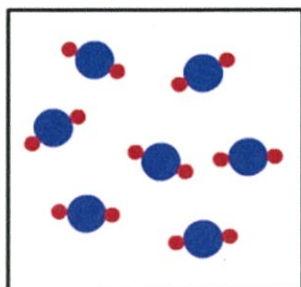
7. Describe what is represented in each of the pictures below. Use the following terms: *Element*, *Molecule*, *Compound* and *Mixture*.



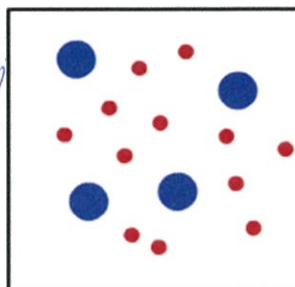
Element



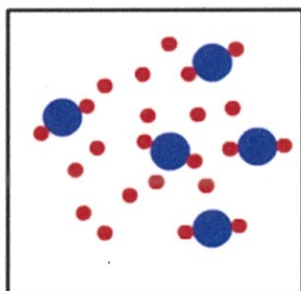
Molecules
of an element



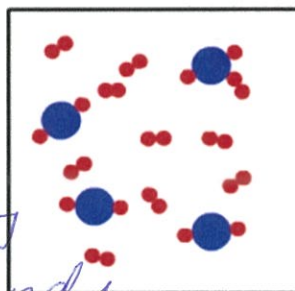
Compound



Mixture of
elements



Mixture
of elements
and compounds.



Mixture of
compounds and
molecules.

8. Fill in the table below:

Compound formula	Name and number of atoms present
<chem>CH3COOH</chem>	Carbon: 2 Hydrogen: 4 Oxygen: 2
<chem>NaCl</chem>	Sodium: 1 Chlorine: 1
<chem>Na2SO4</chem>	Sodium: 2 Sulfur: 1 Oxygen: 4
<chem>Cu(NO3)2</chem>	Copper: 1 Nitrogen: 2 Oxygen: 6.

9. Name the following compounds:

Compound	Name
<chem>NaCl</chem>	Sodium Chloride
<chem>FeS</chem>	Iron Sulfide
<chem>Mg3N2</chem>	Magnesium Nitride

