

**Indicate if these statements are true or false:**

* Solid particles have strong forces of attraction
* Liquids are easy to compress
* Liquids are quite dense
* Gases can easily be compressed
* The force of attraction between gas particles is strong
* Solids and liquids fill the volume of their container

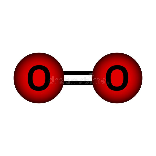
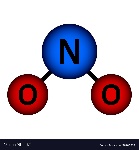
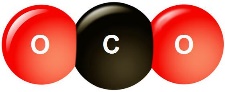
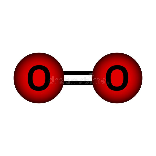
**Name the four ways we can separate impure substances:**

**…………………………………………….**

**…………………………………………….**

**…………………………………………….**

**…………………………………………….**



**How can we test the purity of water?**

**………………………………………………...**

**………………………………………………...**

**……………………………………………...……**

**Circle the incorrect word and correct it:**

When the state of a substance changes, the energy of practices stays the same.

Change of states is irreversible and involves a change in mass.

Condensing is the opposite of melting.

**Why does decreasing volume increase pressure?**

**………………………………….**

**………………………………….**

**………………………………….**

**………………………………….**

**………………………………….**

**…………………………………………………**

**…………………………………………………**

**Complete the definition of diffusion:**

**Diffusion is when \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ move from an area of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ concentration, down the concentration \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**Isla is heating water in a sealed boiling tube. What will happen to the pressure as the temperature increases, why?**

**………………………………………………………………**

**………………………………………………………………**

**………………………………………………………………**

**………………………………………………………………**

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**………………………………………………………………**

**Use the key words to explain the differences in how particles are arranged in solids, liquids and gases: Force, Particle, Strong, Weak**

**………………………………………………………………**

**………………………………………………………………**

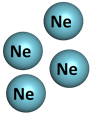
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**………………………………………………………………**

**Pure and Impure Substances**





**Sample A**

**Sample c**

**Sample B**

**Which substance/s are pure? …………………..**

**Which of these is an element? ………………….**

**Name the substances in each sample:**

A: ……………………………………………………

B: ……………………………………………………

……………………………………………………….

C: ……………………………………………………

**For each scenario, give the most appropriate separation technique.**

Copper oxide (insoluble) and water **………………………………………….…**

Ethanol from water **…………………………………………….**

Copper chloride from water **…………………………………………….**

Food colourings from a sample

**…………………………………………….**

**Is it easier to separate compounds or mixtures? Explain why.**

**………………………………………………………..**

**………………………………………………………..**

**………………………………………………………..**

**………………………………………………………..**

**………………………………………………………..**

**Who committed the crime, how do you know? …………………………….**

**……………………………………………**

**……………………………………………**

**Why must the baseline be drawn in pencil? …………………………………**

**……………………………………………**

**……………………………………………**

**……………………………………………**

**Which compound has the higher solubility?**

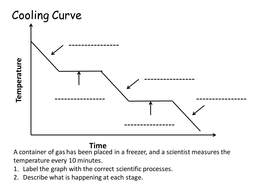
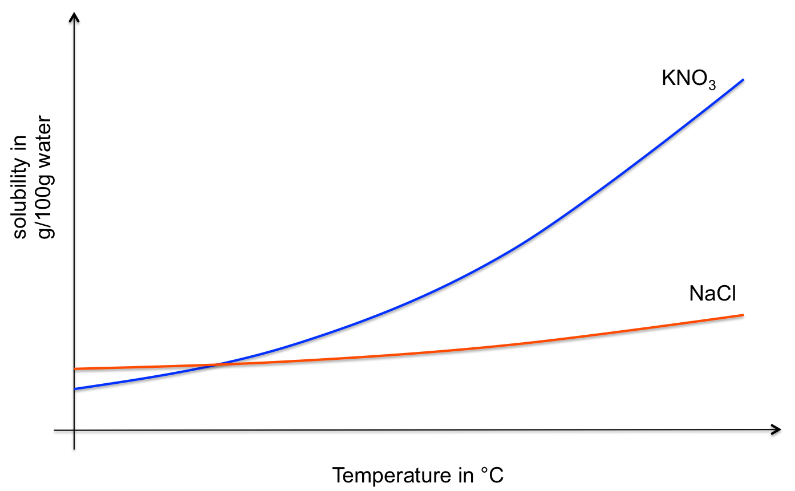
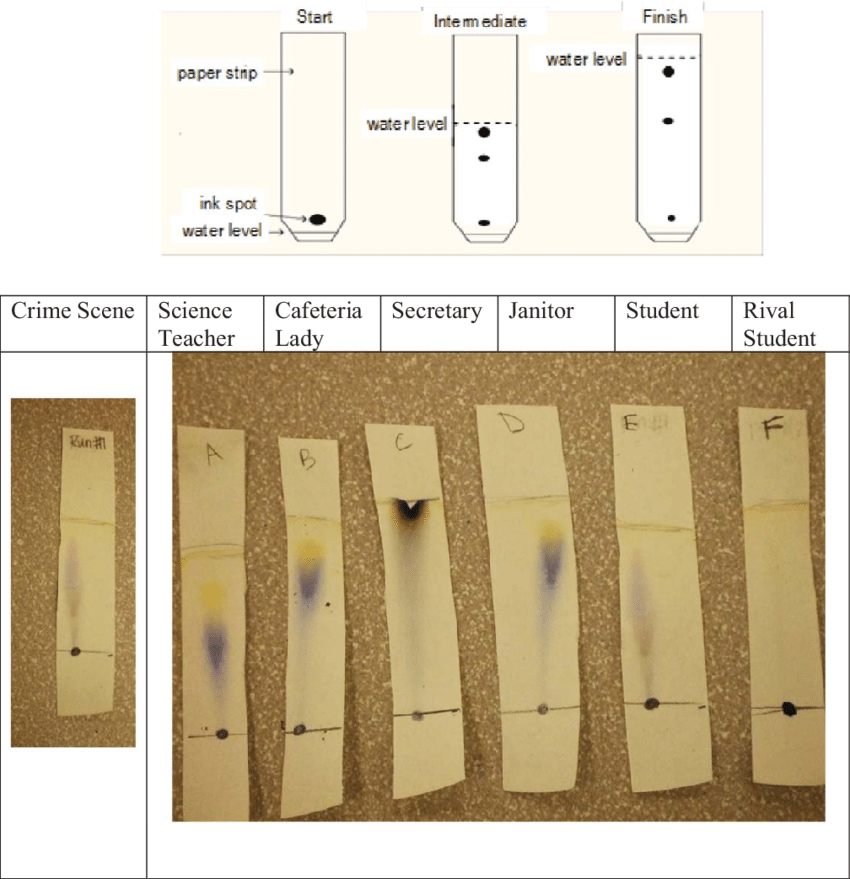
**………………………………………………………..**

**How does temperature effect solubility?**

**…………………………………………………………**

**…………………………………………………………**

**…………………………………………………………**



**Fill in the missing words: Liquid, Solid, Gas, Melting point, Boiling point**

**Temperature**