

**Unit Overview – Matter 1**

**Target grade for tests: .....**

**You will learn about:**

- States of matter and particle model
- Separating mixtures

**You will be able to:**

- Interpret chromatograms
- Analyse patterns in data
- Create a risk assessment



Key learning points						Key Words
State the 3 states of matter						Particle
Describe the properties of: solids, liquids and gases						Intermolecular forces
Explain the particle model of matter						Density
Create particle diagrams for: elements, compounds, mixtures						Malleable
Define diffusion						Ductile
Explain what causes gas pressure						Viscosity
Describe the changes of state						Compression
Explain that parts of a solution: solvent, solute						Diffusion
Describe the method for filtration						dissolve
Describe the method for evaporation						Equilibrium
Describe the method for distillation						Sublime
Describe the method for chromatography						Condense
Evaluate the separation techniques and choose the correct one						Evaporate
Describe solubility and saturation						Melting point
<b>Links to other subjects:</b>						Boiling point
<b>SMSC</b>						Mixture
<ul style="list-style-type: none"> <li>• Justify the cost of distillation in Dubai.</li> </ul>						Filtration
<b>Numeracy</b>						Distillation
<ul style="list-style-type: none"> <li>• Drawing and interpreting graphs</li> <li>• Calculating a mean</li> <li>• Reading a scale and recording measurements</li> </ul>						Filtration
<b>Literacy</b>						chromatography
<ul style="list-style-type: none"> <li>• Construct descriptions and explanations.</li> <li>• Identify advantages and disadvantages of two different solutions.</li> <li>• Identify and describe evidence.</li> </ul>						Solvent
Research	Note-making	Group work & discussion	Memorisation	Precision & accuracy	Independence	Reflection

- Particle
- Intermolecular forces
- Density
- Malleable
- Ductile
- Viscosity
- Compression
- Diffusion
- dissolve
- Equilibrium
- Sublime
- Condense
- Evaporate
- Melting point
- Boiling point
- Mixture
- Filtration
- Distillation
- Filtration
- chromatography
- Solvent
- Solution
- Soluble
- Solute