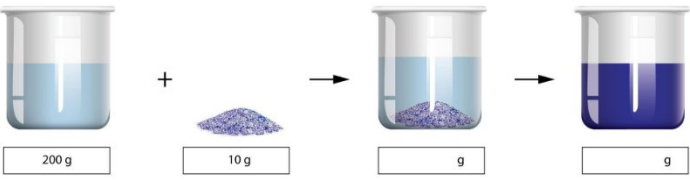
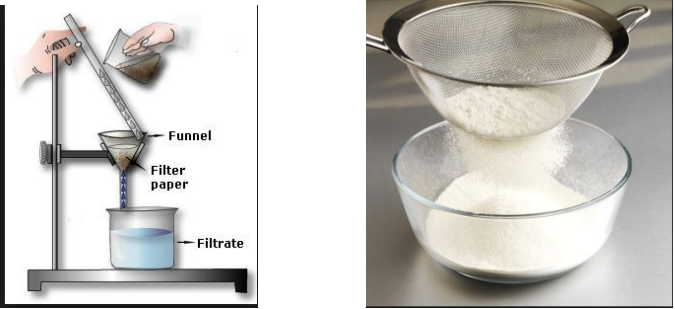
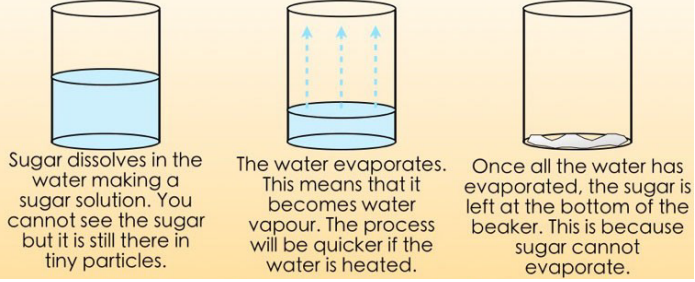


Prior Learning: Things are manufactured using materials. The materials are chosen for their properties

P.O.S – Properties and changes of materials

Concept – Physics - energy transfer, forces

Facts	Vocabulary
<p>1. Materials can be grouped based on their properties:</p> <ul style="list-style-type: none"> a) Hardness b) Solubility c) Transparency d) Conductivity (thermal and electrical) e) Response to magnets 	<p>1. Change - changer (verb), from late Latin cambiare, from Latin cambire 'barter'</p>
<p>2. Definition of a solution;</p> <ul style="list-style-type: none"> a) a liquid mixture in which the minor component (the solute) is uniformly distributed within the major component (the solvent). b) If a material does not dissolve it is insoluble. If it does, it is soluble. 	<p>Materials dissolve into a liquid:</p> 
<p>3. Dissolving:</p> <ul style="list-style-type: none"> a) When a solid dissolves, the solid (solute) and the liquid (solvent) form a very close intimate mixture called a solution. b) This means that the atoms of the dissolved substance are between the molecules of the liquid and cannot be separated by filtration. c) If you pour a solution of salt and water through filter paper, both the water and the salt will pass through the paper 	
<p>4. How to recover a substance from a solution:</p> <ul style="list-style-type: none"> a) Sieving or filtering - a way to separate two solids of different sizes (e.g. flour and raisins). b) Settling overnight c) Evaporation - A solid dissolved in a liquid (solution) can be heated. Liquid evaporates and leaves behind the solid 	<p style="text-align: center;">Filtering Sieving</p>
<p>d) Dissolving, mixing and changes of state are reversible changes.</p>	
<p>e) Some changes result in the formation of new materials, this kind of change is not usually reversible. For example:</p> <ul style="list-style-type: none"> a) Burning b) Action of acid on bicarbonate of soda 	
<p>Websites: https://www.bbc.com/bitesize/topics/zcvv4wx https://littlebinsforlittlehands.com/balloon-baking-soda-vinegar-experiment-kids/</p>	 <p style="text-align: center;">Evaporation</p>