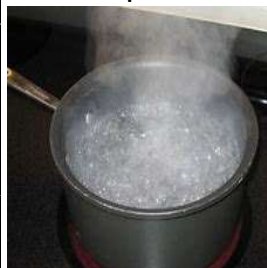


## Key Question - Mission Survival: Can you clean foul water?

Key Vocabulary	Definition		
Electrical conductivity	Ability to conduct or transmit electricity.		
Solubility	How well a substance dissolves.		
Thermal conductivity	Ability to conduct or transmit heat.		
Dissolve	To mix with a liquid and become part of the liquid.		
Insoluble	Something that is not able to dissolve.		
Filtering	Process to use when you can separate small objects.		
Reversible change	Capable of being reversed.		

Examples of reversible changes that can change back to their original form.



Boiling water



Ice cubes melting

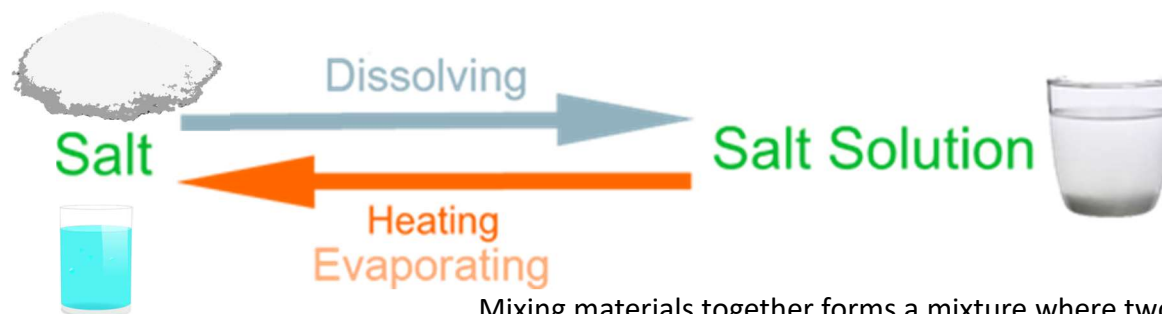


Melting butter



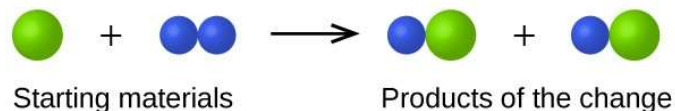
Solution of sugar and water

When a solid (**solute**) dissolves in the liquid (**solvent**), a **solution** is formed.



Mixing materials together forms a mixture where two or more substances are physically combined. It can be separated by physical methods such as:

Chemical changes produce new substances.



Some materials allow electric current to flow more freely than others e.g. metals. These materials are called electrical



Filtering- separating insoluble solids from liquids.  
Sieving- separating different solids.  
Evaporating- separating soluble solids from liquids.

