Nova's Guide to Marvellous Mixtures

Get mixing and un-mixing with Nova! Discover the science behind how we sort the world around us.

- **A mixture is made when two or more substances are combined, but they are not chemically joined together.**
- **Soluble substances, like sugar, dissolve in water to create a clear solution, while insoluble substances, like sand, do not.**
- **You can use a sieve to separate a mixture of solids based on the different sizes of their particles.**
- **Filtration is used to separate an insoluble solid from a liquid by using a filter paper that traps the solid bits.**
- **Magnetism is a brilliant way to separate a mixture if one of the materials is a magnetic metal, such as iron or steel.**
- **Evaporation is the best method to recover a solute that has been dissolved into a solvent to make a solution.**

Did you know? Did you know that you can use evaporation to get salt out of sea water? When the water turns into a gas and floats away, the solid salt crystals are left behind in the container. It is like nature's own magic trick!

Key vocabulary: Solution · Soluble · Insoluble · Filter · Sieve · Evaporation · Mixture