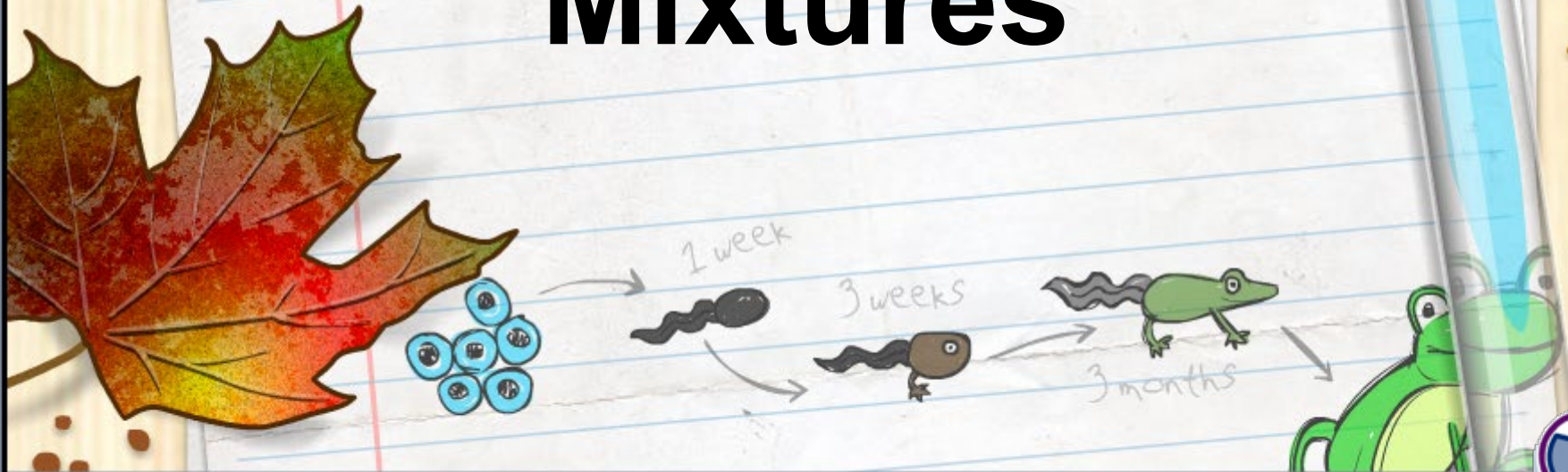
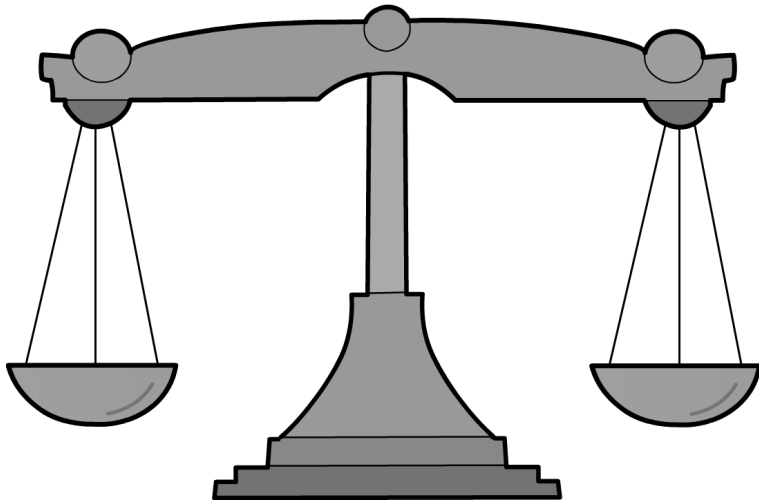


Separating Mixtures

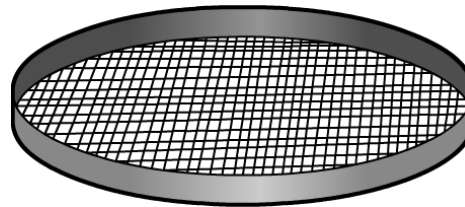


Separating mixtures

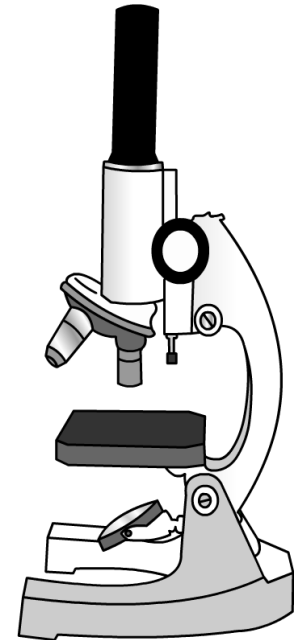
A **mixture** is two or more substances mixed together. Solid substances that are mixed together can often be easily separated again. Which tool would you use to separate a mixture of solids?



scale?



sieve?



microscope?

A sieve can be used to separate a mixture of solids.

Separating mixtures



Separating mixtures



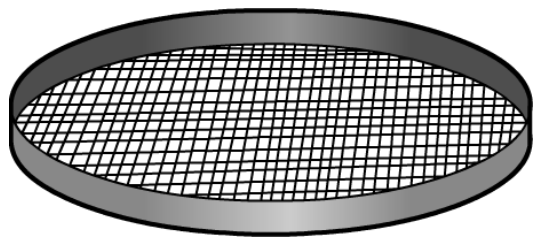
Separating mixtures



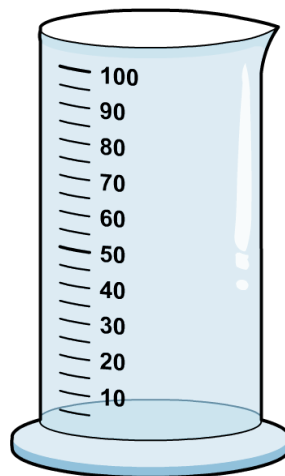
Separating mixtures

Some of the solids **dissolved** in the water to form a solution.
Other solids **reacted** with the water to form a new substance.

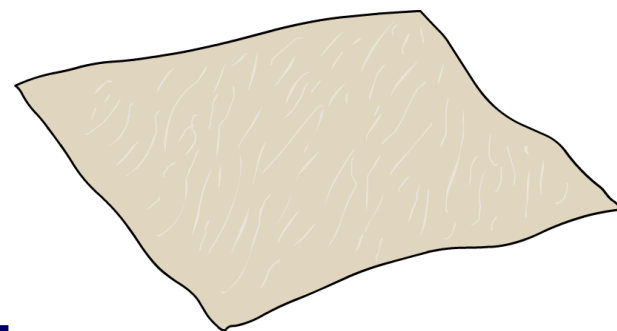
The solids that did not dissolve or react with the water can be easily separated. What should we use to separate a solid that did not dissolve or react from a liquid?



sieve?



measuring
cylinder?



filter paper?

Filter paper can be used to separate a solid, such as sand or chalk, from a liquid.



Separating mixtures



Separating mixtures



Separating mixtures



Separating mixtures



Separating mixtures



Burning a material is very different from heating it. When most materials are burned, new materials are made and the change is **irreversible**.



Burning usually produces smoke, as well as another gas that you can't see. Ash is another new material that is produced by burning.