



Key Vocabulary

Filter – to separate particles of a certain size

Sieving – a device for filtering

Evaporate – turning a liquid into gas

Dissolve – a solid combining with a liquid to form a solution

Solution – a liquid that has a solid dissolved within it

Soluble – a material that will dissolve

Transparent – light passes fully through

Translucent – allows **some** light to pass through

Conductor – a material that allows heat or electricity through

Insulate – a material that restricts heat or electricity

Thermal – regarding heat

Reversible – can be changed back

Irreversible – can **not** be changed back

Change of state – some materials can change between solid, liquid and gaseous states

Burning – a chemical change of state that creates new materials, including gases

Melting – turning a solid into liquid by adding heat

Spencer Silver – The man who “invented” the glue on Post-It notes

Key Knowledge

Children will be able to:

- ♣ compare and group together everyday materials on the basis of their properties
- ♣ know that some materials will dissolve in liquid to form a solution
- ♣ use knowledge of solids, liquids and gases to decide how mixtures might be separated
- ♣ demonstrate that dissolving, mixing and changes of state are reversible changes
- ♣ explain that some, usually irreversible, changes result in the formation of new materials



Changes Owls: Properties of materials

