

Science: Material World Y5, T1

Learning link

Materials are all around us. Look around the room. What materials can you see— glass, plastic, wood, metal...

Are they magnetic or transparent? Are they rigid or flexible?

Stephanie Kwolek

Her most famous invention was **kevlar**— a material five times stronger than steel but much lighter.

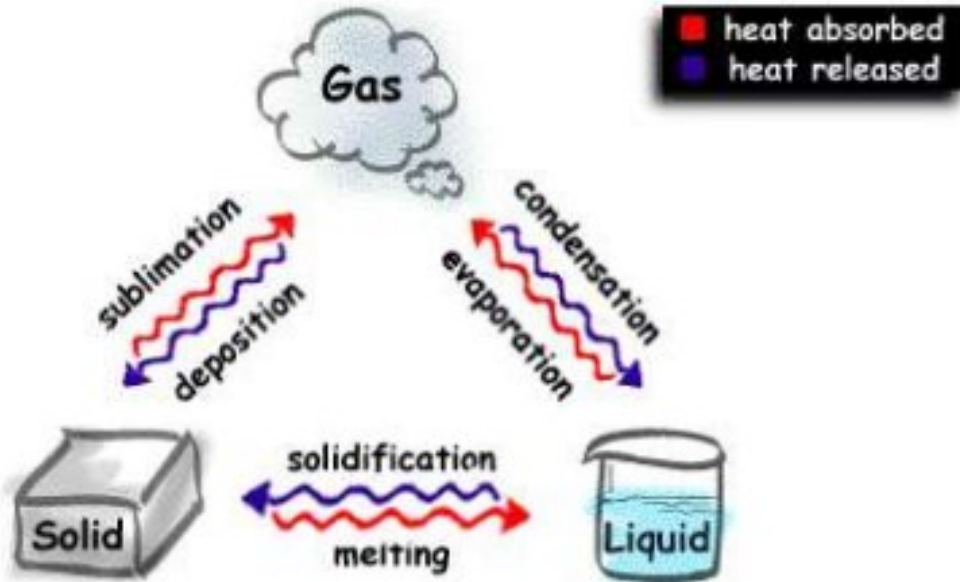


Vocabulary

Dissolve	A solid substance (<u>solute</u>) completely mixes into a liquid (<u>solvent</u>) to form a clear liquid called a <u>solution</u> .
Evaporate	the process where a liquid slowly turns into a gas or vapour at a temperature below its boiling point.
Heat conductor	A material that allows heat energy to pass through it easily.
Thermal insulator	A material that <u>doesn't let heat travel through it easily</u> , helping to keep hot things hot and cold things cold .
Soluble	A substance can completely mix with a liquid (like water) to form a clear liquid called a solution, appearing to disappear, like sugar dissolving in water

Practical

Are some materials stronger than others? We will test this and record the results.



Thermal Conductors & Insulators

Thermal conductors

Copper Aluminum Gold

Thermal insulators

Wood Plastic Foam

