Changing Materials ©

The candle wax is reversible as it can change between solid and liquid depending on the heat. The wick (string) is irreversible as when it burns, it cannot change

There are 3 states: solid, liquid or gas. Some materials can change between these states. For water:

Solid \rightarrow Liquid = melt Liquid \rightarrow Gas = evaporate

Gas → Liquid = condense Liquid → Solid = freeze

Reversible change: when materials can change state, then back again, for example, candle wax.

Irreversible change: when materials can change state, but cannot change back, for example, burning wood. Water

Heat is often the cause of changing state.

Different materials have different temperatures when they turn from solids to liquids, to gases, and back.

Vapour Evaporation Liquid to Gas Condensation Gas to Liquid Melting Freezing Solid to Liquid to Solid Liquid

Managing Changing

The candle wax is reversible as it can change between solid and liquid depending on the heat. The wick (string) is irreversible as when it burns, it cannot change

There are 3 can change Solid → Liqui

Gas → Liqui

Reversible change: when materials



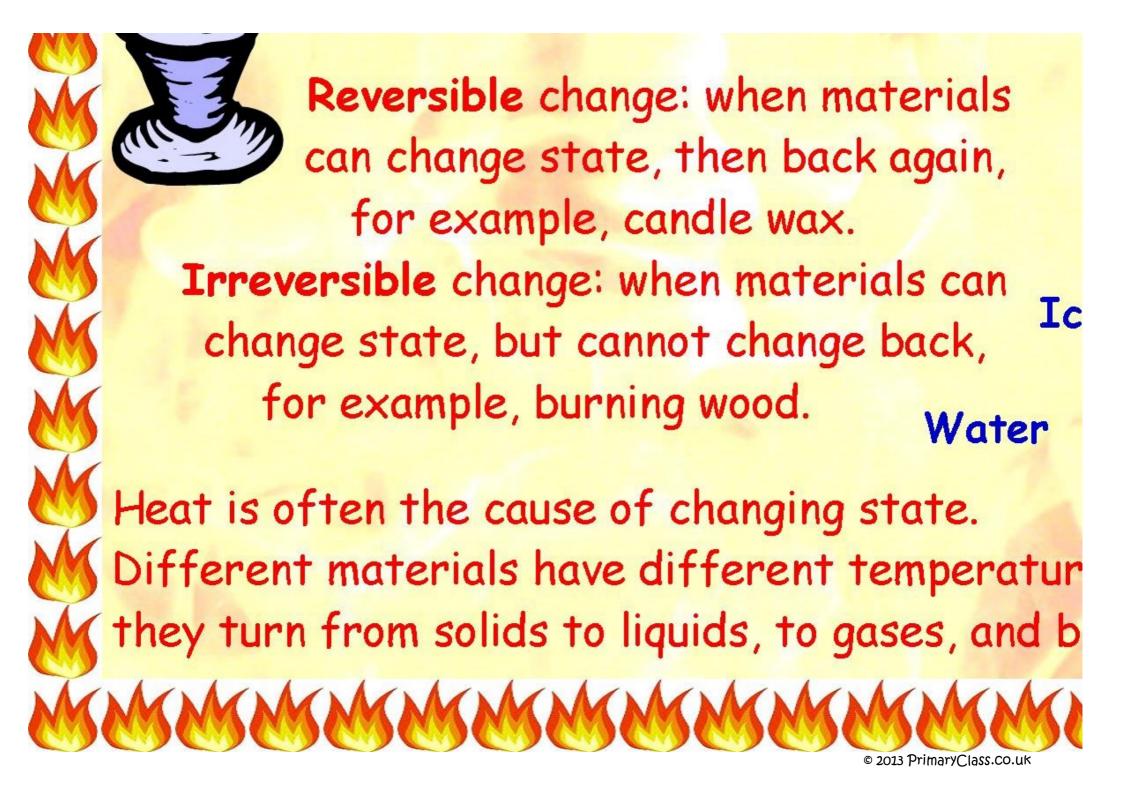
e 3 states: solid, liquid or gas. Some materials ge between these states. For water:

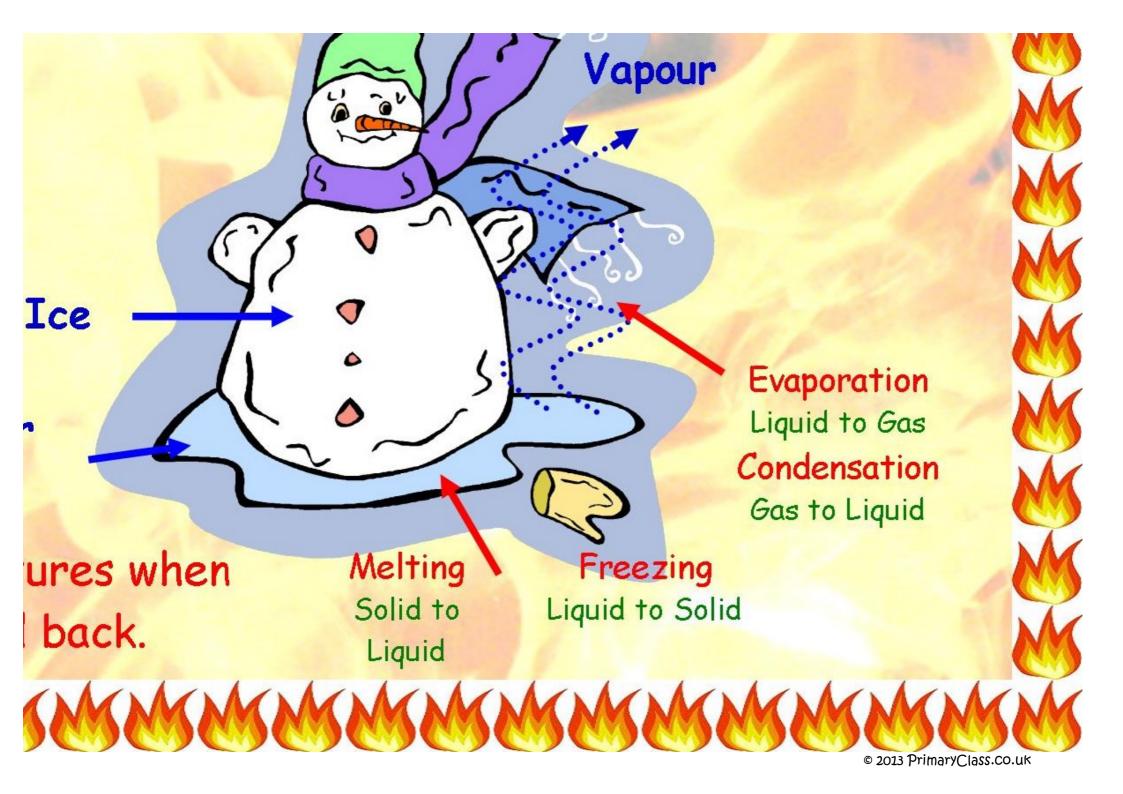
.iquid = melt

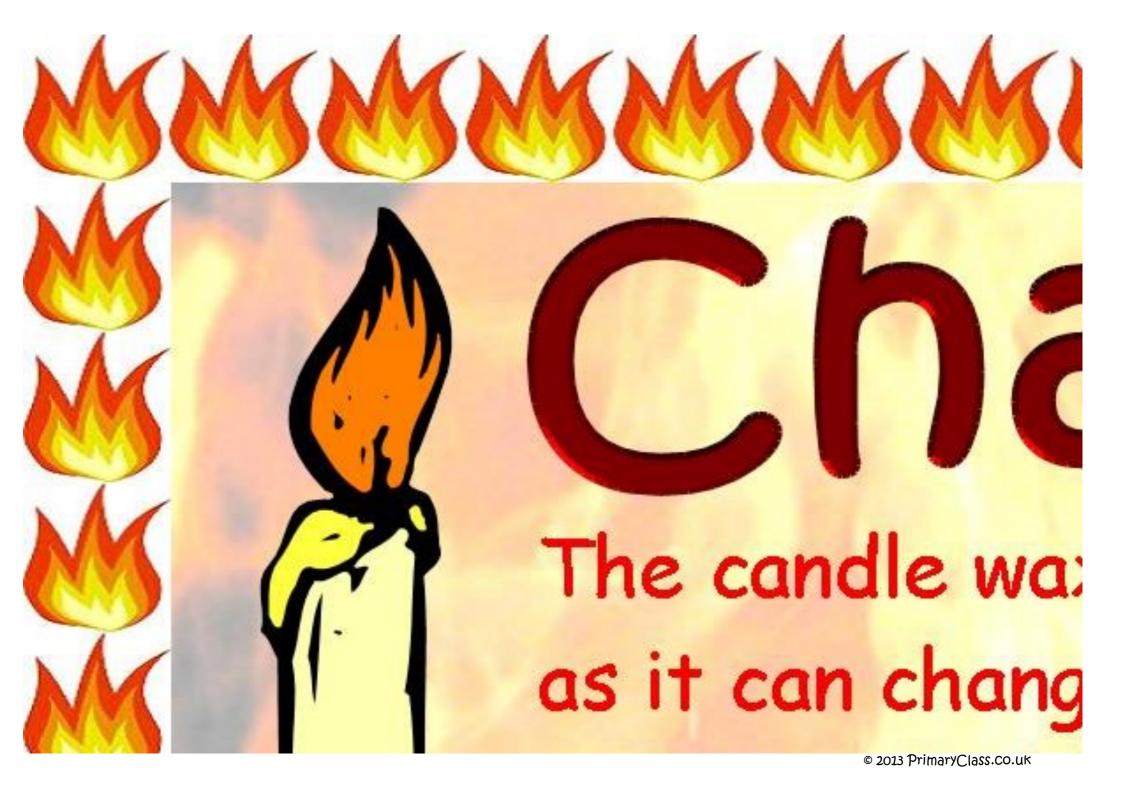
Liquid → Gas = evaporate

quid = condense

Liquid -> Solid = freeze



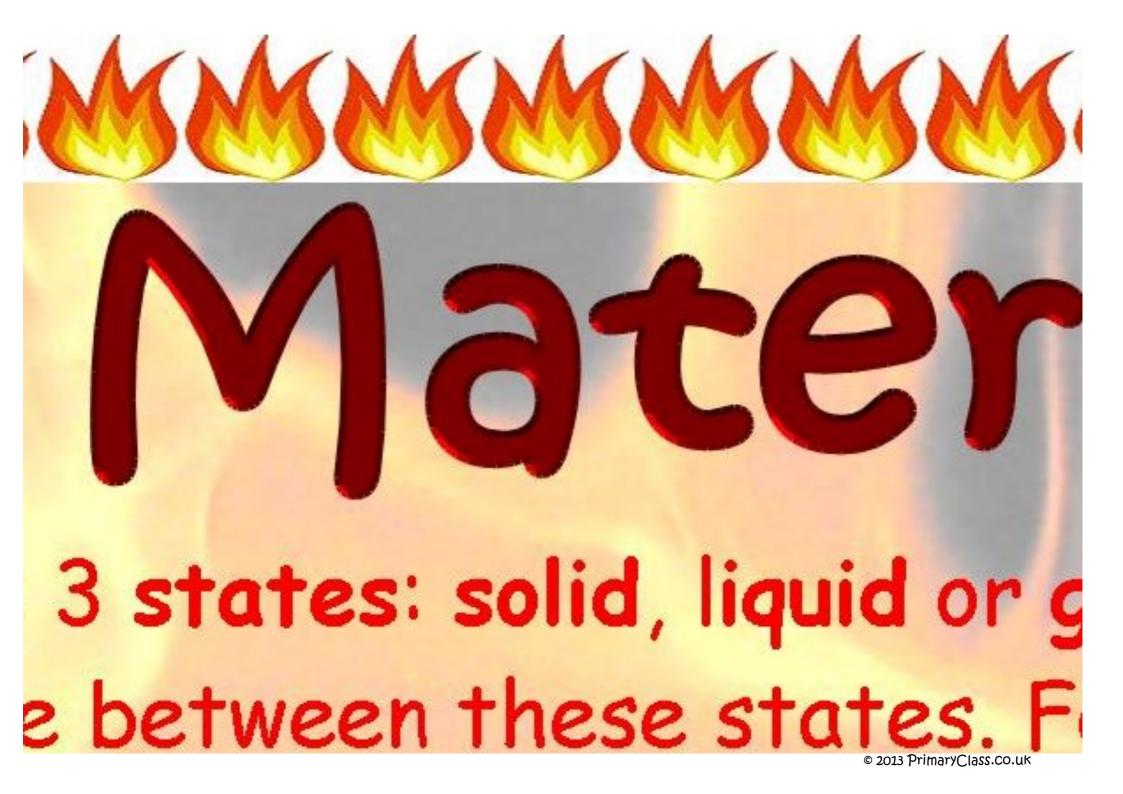




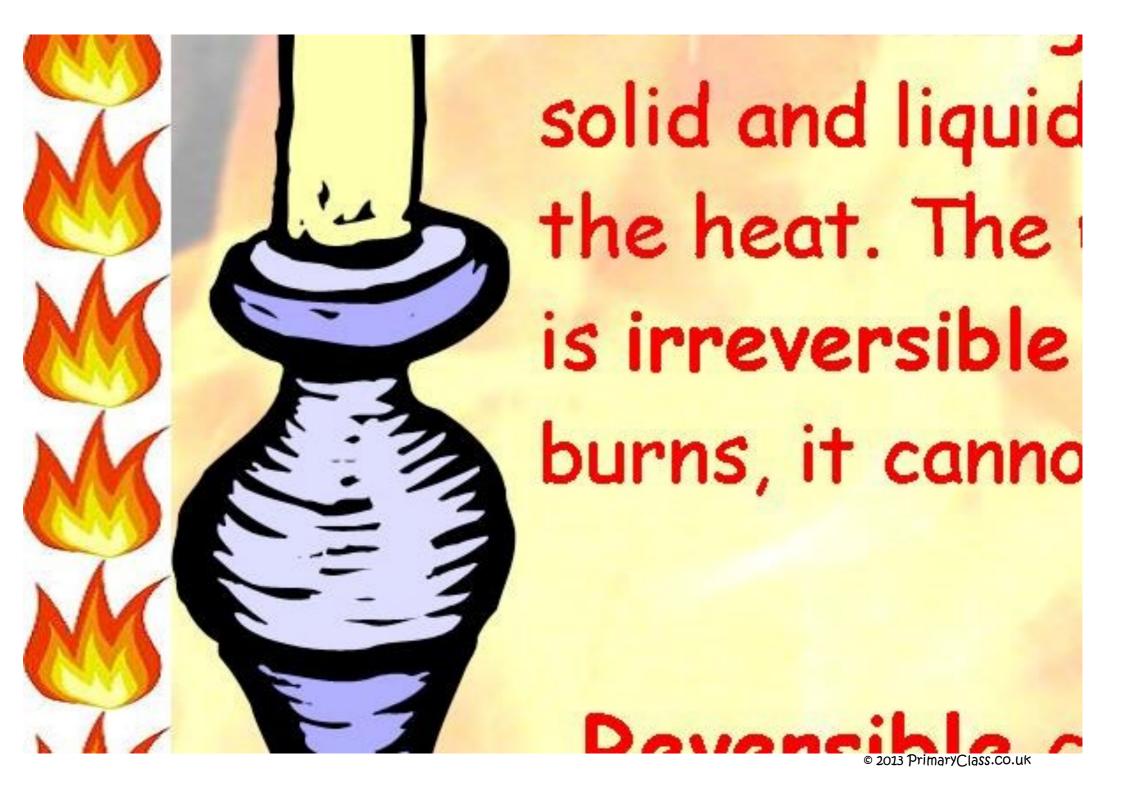
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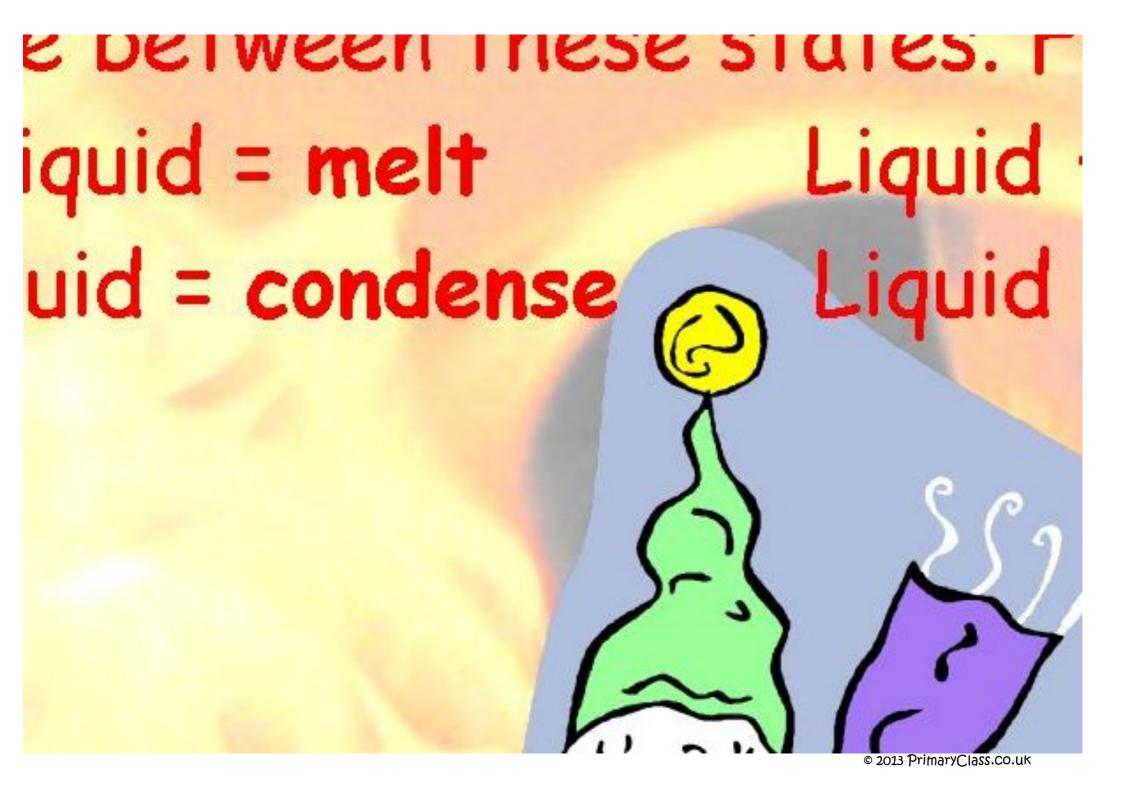




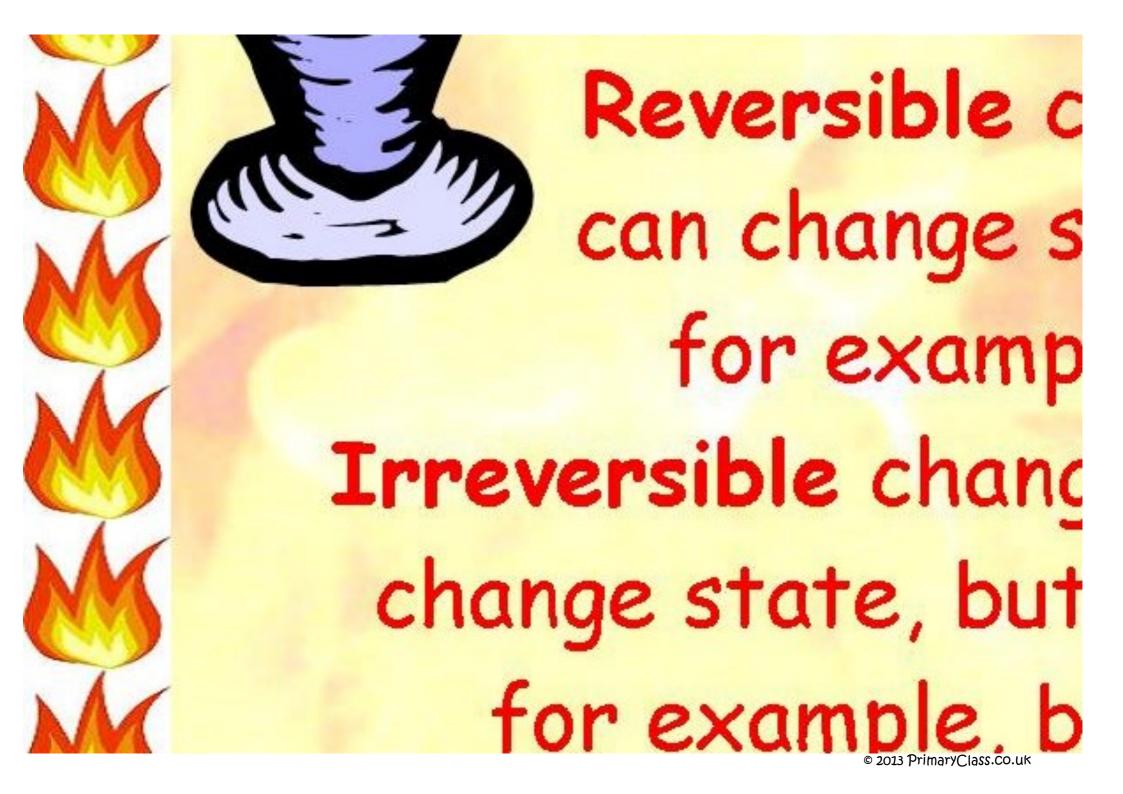
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Solid -> Liqu

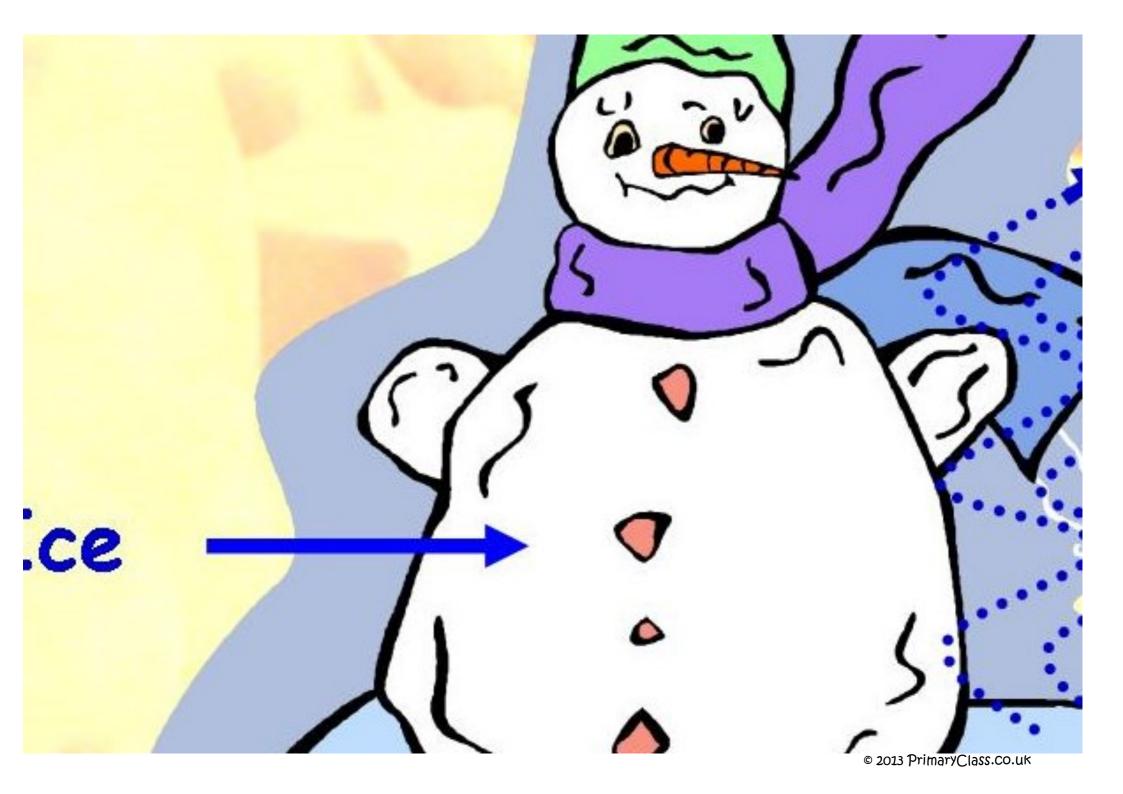
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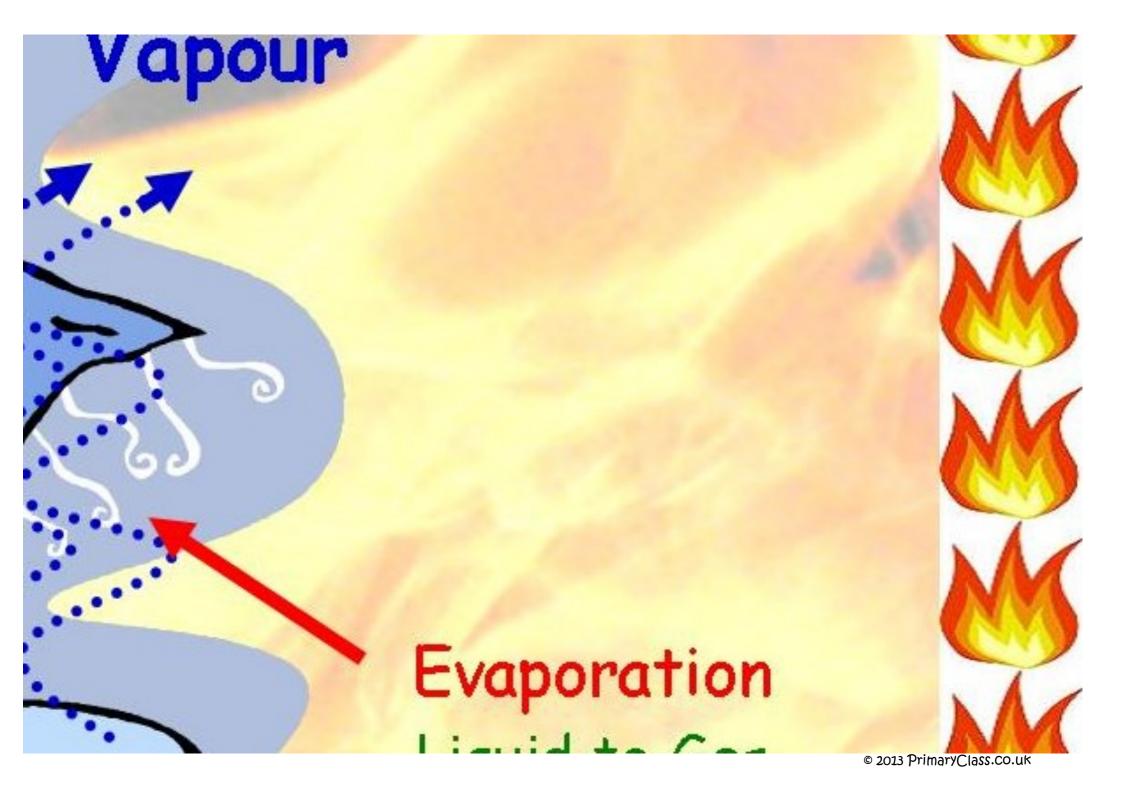


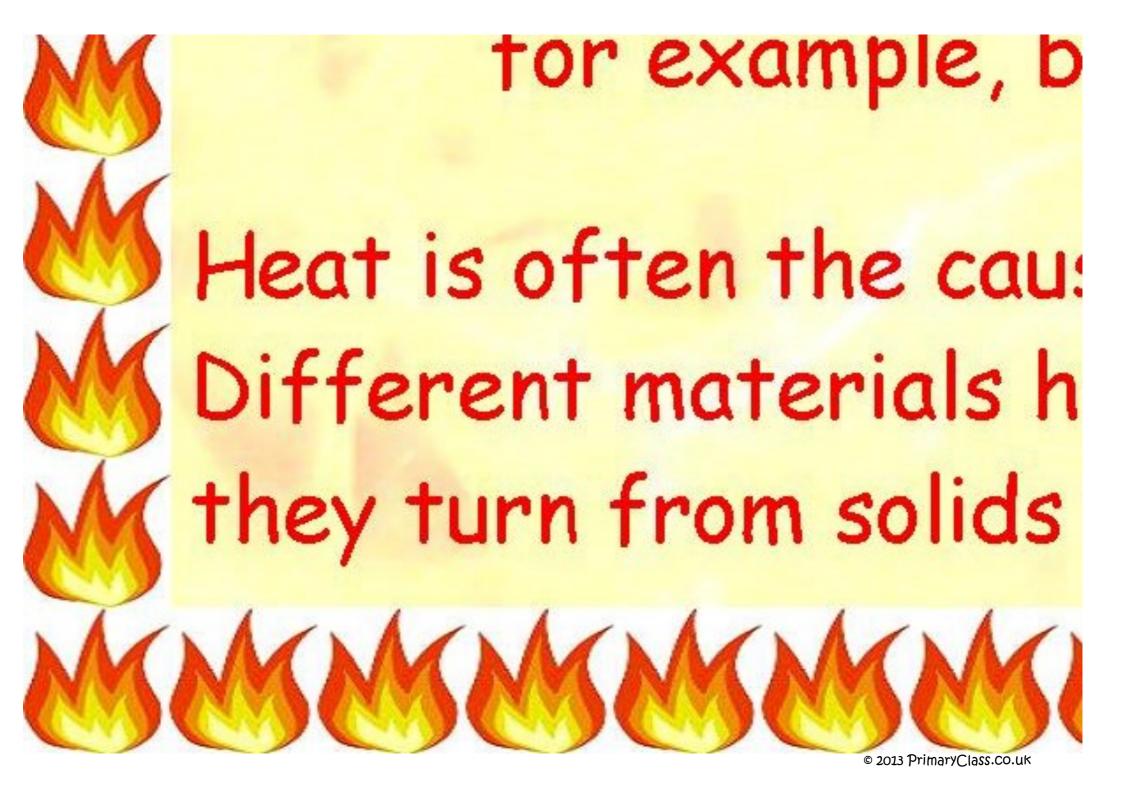
or water. → Gas = evaporate > Solid = freeze Vapour © 2013 Primary Class. Co. uk



change: when materials state, then back again, ple, candle wax. nge: when materials can it cannot change back, burning wood.







burning wood.

Water

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use of changing state. have different temperatu s to liquids, to gases, and l

