

What will you choose to do?

- Make a list of all the solids, liquids and gases you can find at home. Are they kept safely?
- Make a sketch of any interesting bottles you have at home. Remember to add patterns, textures, shading and finer details!
- Make homemade perfume or potions using things you find in the kitchen, garden or bathroom (before you start check with an adult which substances are safe to use). Use a pestle and mortar to grind up the things you find. Add liquid and strain to get rid of the lumpy bits. What have you made?
- Calculate how many litres of water it takes to fill your bath. Which uses less water, the shower or the bath? How can you find out?
- Make ice lollies at home. Can you add a surprise ingredient that reveals itself as the ice melts?
- Visit your local library or bookshop to search for other plays and stories on the theme of potions. Write a book review and share it with others in your class.



anaesthetic

A substance that makes you incapable of feeling pain.

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boil

To cause a liquid to reach boiling point, where it starts to bubble and turn into a gas.

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bubble

A sphere of gas that appears in a solid or liquid, or that is surrounded by a thin film of liquid and floats.

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capacity

The amount that a container can hold.

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condense

To cause a gas to become a liquid, by cooling.

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dangerous

Likely to cause harm.

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dental

Relating to the teeth or dentistry.

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essential oil

A natural oil, usually with a strong smell of the plant it is taken from, that can be used for perfume, food preparation or massage.

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evaporate

To cause a liquid to become a gas, by heating.

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freeze

To cause a liquid to become a solid, by cooling.

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gas

A substance that is neither solid nor liquid and expands freely to fill the available space.

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heating

Make or become hot or warm.

herbs

Any plant with leaves, seeds or flowers used for making medicine or to give flavour to particular dishes when cooking.

ingredients

The substances that make up a mixture.

liquid

A substance, such as water, that is neither a solid nor gas and which flows freely, but is of constant volume.

magical

Relating to, using, or resembling magic – the power to control natural forces.

medical

Relating to the science or practice of medicine – the treatment of illness and injuries.

medicinal

A substance or plant used to cure illness or relieve pain.

melt

To cause a solid to become liquid, by heating.

mixture

A substance made by mixing a combination of other substances together.

molecule

The smallest fundamental unit of a chemical compound – usually a group of two or more atoms bonded together.

poison

A substance that can kill or injure a living organism when swallowed or absorbed.

potion

A mixture that is not a medicine, and is believed to have a magical effect on someone who drinks it.

process

A series of actions or steps that you take, or that happen naturally, to achieve a result.

properties

The qualities of a substance or material. For example, herbs have medicinal properties.

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solid

A substance that is neither a liquid or gas and which keeps its size and shape.

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source

The place, person or thing from which something comes from.

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spell

Words that, when spoken, are thought to have magical power, or the condition of being under the control of such words.

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state

A condition or stage of physical matter at a particular time, such as water in the solid state is ice.

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surgery

The treatment of injuries or diseases of the body by incision, when damaged parts are removed or repaired.

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temperature

The amount of heat in a substance or object, as measured by a thermometer.

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thermometer

An instrument used for measuring temperature.

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viscosity

A measure of how thick or sticky a liquid is.

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witch

A woman who is believed to have magical powers.

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wizard

A man who is believed to have magical powers.

**Cornerstones**

Labels

[Alice in Wonderland doorknobs – YouTube](#)

A three-minute clip from the Disney film Alice in Wonderland, where Alice discovers the bottle labelled 'drink me'.

[New labels for chemical products – understandthelabel.org.uk](#)

Interactive symbols and definitions of some hazardous labels.

Solids, liquids and gases

[KS2 Bitesize The behaviour of particles in solids, liquids and gases – BBC](#)

A one-minute cartoon demonstrating differences in behaviour between solid, liquid and gas particles.

[KS2 Bitesize Solids and Liquids – BBC](#)

An interactive activity to explore solids and liquids changing states.

[Solids, liquids and gases – Science Kids](#)

An interactive game that requires children to sort different objects into the categories of solids, liquids and gases followed by a game about heating and cooling liquids.

Surgery and anaesthesia

[Timeline – History of Anaesthesia Society](#)

A timeline of the development of anaesthetic from 1298 to 2010.

[Anesthesia – HistoryBits](#)

Suitable for teachers, this site provides a brief overview of how ether was first used as an anaesthetic.

[Surgery – Science Museum](#)

Gives a history of surgery during different time periods.

Bubbles

[Bubbles, bubbles, bubbles – Science Museum](#)

Information about the science of bubbles, a recipe for bubble mixture and activities to try in the classroom.

[Bubbles – Science World](#)

An American museum website with information about how bubbles are formed and a film clip containing four bubble activities that can be tried in the classroom.

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Mythical and medicinal herbs

[Herbs: A-Z list – Ancient Wisdom](#)

A list of herbs and their various uses, suitable for teachers.

Shakespeare

[The Folger Library – ‘Round the Cauldron’ from Macbeth](#)

A copy of the spell from Macbeth with suggested sound effects.

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