## **CLASS NOTICES**

## Reading

Children need to read for at least ten minutes every day in order to help them improve their fluency of reading. The children will be responsible for changing their reading books when they complete the book they have read. Please can parents sign the reading record to say you have heard your child read at least once a week

## PE

PE will take place on Tuesdays and Wednesdays.

Children need to come to school in their PE kit:

Black shorts or jogging trousers, plain, white t-shirt, plain black/dark jumper or hoodie and black trainers or plimsolls.

Weather permitting, we will continue to do PE outside, so please bear this in mind when choosing your PE kit for the day.

They will also need their coat for playtime and lunchtimes when they are outside.

Children must not wear earrings on PE days.

#### **PSHE**

In PSHE we will be looking at Celebrating Difference. We will be respectful when sharing our ideas and listening to others, using kind words and following our class charter.

## Homework

Homework will go home on **Friday** and is due back the following **Wednesday**.

Our maths homework will focus on our times tables. We will also send home Spelling words. Each half term, children will be asked to complete a homework project.

If you have any questions about the homework, please talk to us and we will be happy to help.

Thank you for your continued support.

Mrs Cooper & Mrs Wade

# Class Curriculum Information



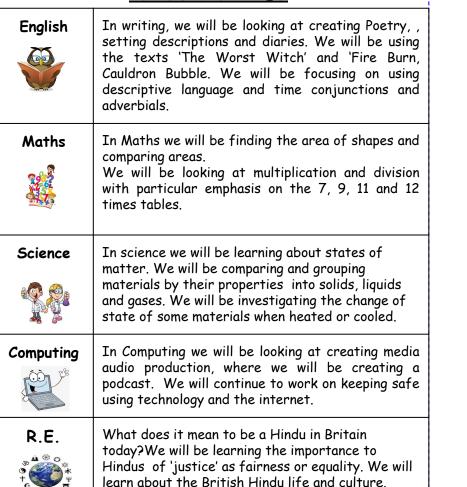
Bringing out the Best

Year Four Potions



Autumn Term 2 2023

# CLASS NOTICES



## ENRICHMENT AREAS OF LEARNING



Geography

In History we will be finding out about how potions were used in the past for both everyday medicine and magical reasons. We will create a potion using a range of herbs and ingredients known for their mystical or medicinal properties and write a description of a potion and its historical usage.



term The children will be learning about rhythm and pitch as well as learning the language of music.

Year 4 will focus on playing the glockenspiel this



Children will explore how we can create sequenced imagery to share and tell stories. We will study an artists, an illustrator and a graphic novelist.



In PE this term we will be learning how to play Badminton and developing our racket skills.



MFL Year 4 will be continuing our MFL journey with Spanish. We will be looking at the human body and Christmas. We will learn about Spanish speaking countries across the world

# **Potions**

#### What is a potion?

Potions are liquids that are said to have healing or magical properties. Before people knew about modern medicines, healing potions, often made from herbs, were thought to cure a range of health problems. In fantasy stories and films, potions are usually made by a magician or a witch. They can do magical things such as healing, bewitching or poisoning. In Lewis Carroll's Alice's Adventures in Wonderland, Alice drinks a potion labelled 'Drink me' that magically makes her shrink.

#### Potions in Shakespeare's plays

William Shakespeare used potions for different effects in some of his plays. In A Midsummer Night's Dream, the character Puck uses a love potion to create chaos:

> The juice of it on sleeping eyelids laid Will make man or woman madly date Upon the next live creature that it sees.

A sleeping potion is used in *Romeo and Juliet*, with tragic consequences:

Take thou this vial, being then in bed, And this distilled liquor drink thou off, When presently through all thy veins shall run A cold and drowsy humour

In Macbeth, three witches make a potion to help Macbeth see into the future. It contains all sorts of strange things:

Fillet of a fenny snake, in the cauldron boil and bake, Eye of newt and toe of frog, Wool of bat and tongue of dog, Adder's fork and blind-worm's sting, Lizard's leg and owlet's wing

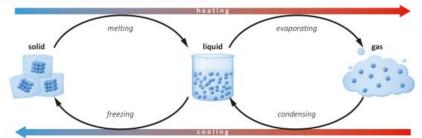
#### Solids, liquids, and gases

All matter is made up of particles. The arrangement of the particles determines whether the matter is a solid, liquid or gas and its properties.

Particle arrangement	Properties	Examples
Solid	Particles are tightly packed together, which means solids hold their shape and can't be squashed.	wood, brick, rock, sand, ice, butter
Liquid	Particles are slightly further apart so liquids can flow from one container to another. Liquids cannot change their volume.	water, milk, oil, honey, lemonade, blood
Gas	Particles are far apart so gases can spread out to fill all the space available. A gas can be squashed to change its volume.	air, oxygen, carbon dioxide, helium, nitrogen, water vapour

#### Changes of state

Matter can be changed between states by heating or cooling.



#### Gases

Gases are all around us but cannot often be smelt or seen.

Gas	Uses	
oxygen	found in air and used by the body to get energy from food	
nitrogen	found in air	
carbon dioxide	makes drinks fizzy and is released when people breathe out	
helium	filling balloons	
propane	fuel for barbecues	
nitrous oxide	anaesthetic and painkiller	
ether	vapour used as anaesthetic	
ethylene	vapour used as anaesthetic	

#### **Anaesthetics**

Anaesthetics are drugs used to put people to sleep when they have an operation. Having an anaesthetic means the patient will not feel pain during surgery. Many anaesthetics are gases and patients breathe them in through a breathing mask or tube. In 1846, an American dentist, William Morton, first used a gas called ether for pain relief when pulling a tooth out. Before that, there was no pain relief during operations. The discovery of anaesthetics is thought to be one of the greatest discoveries of all time.



William Morton uses ether on a patient

#### Timeline of anaesthetics

4000 BC	Sumerians use opium poppy as an anaesthetic.	
1600 BC	Acupuncture is used in China for pain relief.	
600 BC	Sushruta, an Indian doctor, uses wine with herbs to sedate his patients.	
AD 64	Dioscorides, a Greek surgeon in the Roman army, writes about using mandrake root boiled in wine to numb soldiers' wounds.	
AD 160	In China, Hua Tuo performs surgery with his own general anaesthetic, mafeisan, a mixture of Chinese herbs and wine.	
1493–1541	Paracelsus, a Swiss doctor, discovers laudanum and uses it as a painkilling drug served in an alcoholic drink.	
1771–1786	Joseph Priestly, an English chemist, discovers oxygen and nitrous oxide ('laughing gas').	
1798–1801	Sir Humphry Davy experiments with nitrous oxide as an anaesthetic.	
1805	Friedrich Serturner, a German pharmacist, discovers a painkilling drug called morphine.	
1846	American dentist William Morton uses ether as an anaesthetic for a tooth extraction.	
1923	Isabella Herb, an American doctor, uses ethylene gas as an anaesthetic.	
1981	A British anaesthetist called Archie Brain invents a safer way of delivering anaesthetics using a laryngeal mask which keeps a patient's airway open during an anaesthetic.	

## Glossary

acupuncture	A treatment for pain where thin needles are positioned just under the skin at special points around the body.	
anaesthetic	A substance that makes someone go to sleep or stops them feeling pain during an operation.	
condensation	The process of a gas cooling to become a liquid.	
evaporation	The process of a liquid becoming a gas by heating.	
freezing	The process of a liquid becoming a solid by cooling.	
laudanum	A solution containing morphine that is used as a painkiller.	
mafeisan	A powder containing drugs to make patients sleep and stop them from feeling pain. It is not known exactly what it contained.	
mandrake	A plant with purple flowers. The root was used as an anaesthetic in ancient times.	
matter	A physical substance that takes up space.	
melting	The process of a solid becoming a liquid when it is heated.	
morphine	A drug made from opium that is used to stop people from feeling pain.	
particle	An extremely small piece of matter.	
potion	A liquid that is not a medicine and is believed to have a magical effect on someone who drinks it.	
sedate	To make a person feel very calm or go to sleep.	
vapour	A gas or very small drops of liquid that result from heating a liquid.	