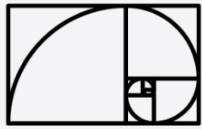
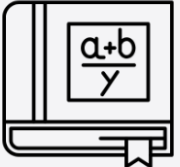
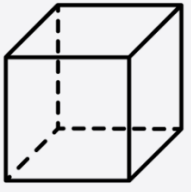
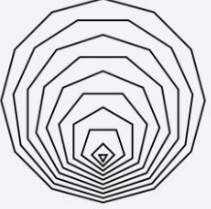
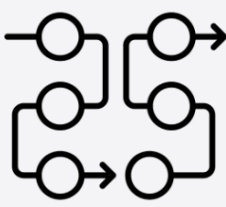
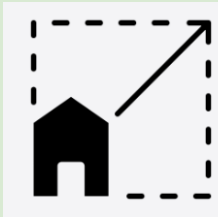




Bredon School

Year 8 Curriculum Map

Subject	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Mathematics	Ratio The ratio topic covers simplifying ratios, the link between ratio and fractions, and solving ratio problems.  Proportion & Scale Conversion graphs, currency conversion and changing recipe amounts are some of the lessons covered in this topic.	Algebraic Manipulation Students review collecting like terms, then move on to expanding and factorising single brackets.  Coordinates & Graphs This topic covers plotting and reading coordinates, and all straight line graphs up to ones of the form	Area & Volume This topic covers area of basic and compound 2D shapes, and volume of cubes and cuboids.  Equations The lessons cover solving up to 2 step equations, or that have brackets, or are fractional equations.	Decimal Arithmetic & Rounding Lessons include multiplying and dividing a decimal, and rounding to a given number of decimal places.  Expressions & Indices Students are introduced to index notation and it is then	Angles in Polygons This topic covers all the angle rules up to knowing the angle rules for triangles and quadrilaterals.  Tables & Probability Students review the language of probability, the probability scale, listing outcomes, experimental probability, and	Graphs & Charts Students learn to draw and interpret pie charts  Sequences This topics covers describing and generating sequences. 



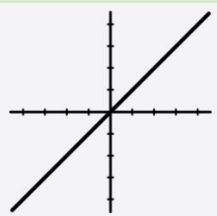
Directed Number

Students practise using the four operations with positive and negative numbers.



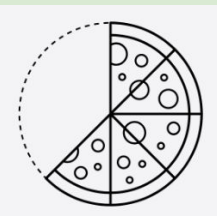
Useful information at <https://whiteroseeducation.com/parent-pupil-resources/maths/home-learning?year=year-8>

$$y=mx+c$$



Multiply Fractions

Lessons cover representing fractions, simplifying, converting between improper fractions and mixed numbers, as well as multiplying fractions

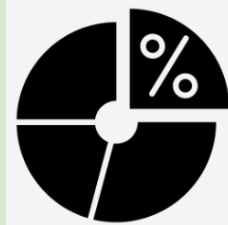


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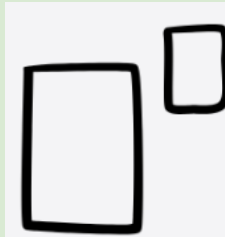
Fractions & Percentages

Students review converting between fractions, decimals and percentages.



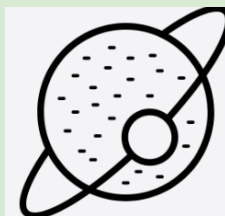
Useful information at <https://whiteroseeducation.com/parent-pupil-resources/maths/home-learning?year=year-8>

applied to simplifying algebra.



Standard Form

This topic covers using standard form and converting between standard form and ordinary numbers.



Interpret & Represent Data

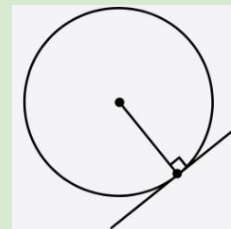
As well as interpreting and representing data, lessons cover averages and the range, and using frequency tables.

presenting results.



Circles

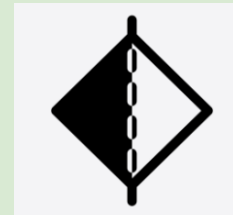
The vocabulary of circle parts is covered in this topic, along with finding the area and circumference of a circle.



Useful information at <https://whiteroseeducation.com/parent-pupil-resources/maths/home-learning?year=year-8>

Symmetry & Reflection

Line symmetry is reviewed before students identify and draw reflections.

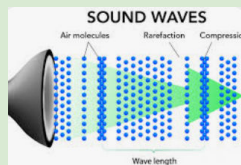


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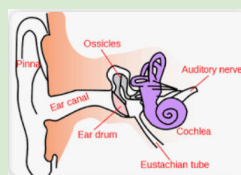
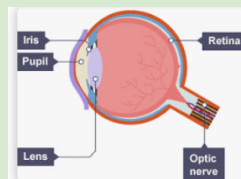
				 Useful information at https://whiteroseeducation.com/parent-pupil-resources/maths/home-learning?year=year-8		
Catering	Those undertaking the catering rotation work on a project designing and making their very own stuffed bread. They will make products from scratch that would be fit to sell in a bakery. 	 Starting from basic doughs, the pupils will move on to making enriched doughs and increasingly more complex bread products. Their final dish will be their practical assessment piece, where they can show off their creativity.	Those undertaking the catering rotation work on a project designing and making their very own stuffed bread. They will make products from scratch that would be fit to sell in a bakery. 	 Starting from basic doughs, the pupils will move on to making enriched doughs and increasingly more complex bread products. Their final dish will be their practical assessment piece, where they can show off their creativity.	Those undertaking the catering rotation work on a project designing and making their very own stuffed bread. They will make products from scratch that would be fit to sell in a bakery. 	 Starting from basic doughs, the pupils will move on to making enriched doughs and increasingly more complex bread products. Their final dish will be their practical assessment piece, where they can show off their creativity.

Science

Physics “Waves”
to include:
Sound waves and speed, Loudness and amplitude, Frequency and pitch, The ear and hearing



Light, Reflection, Refraction, The eye and vision, Colour.



Chemistry
“Earth” to include:
The structure of the earth, Sedimentary rocks, Igneous and metamorphic rocks, The rock cycle, Ceramics, The night sky, The solar system, The earth, The moon and changing ideas.



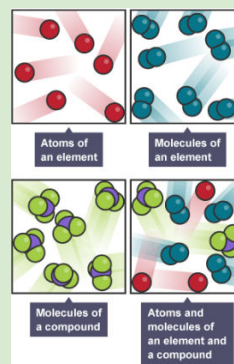
Biology “Genes”
To include:
Variation, Continuous and discontinuous data and adapting to change.

Biology “Human Reproduction” to include:
Adolescence, Reproductive systems, Fertilisation and implantation, Development of a foetus and the Menstrual cycle

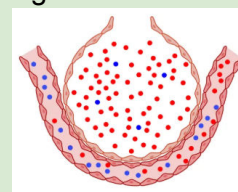


Physics “Forces”
to include:
Friction and Drag, Squashing and stretching, Turning forces, Pressure in gases, Pressure in liquids, Pressure in solids.

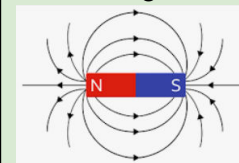
Chemistry
“Matter” to include:
Elements, Atoms, Compounds, Chemical formulae, Polymers, The periodic table, The elements of Group 1, 7, and 0.



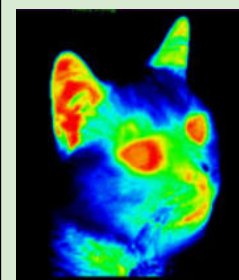
Biology
“Organisms” to include: Gas exchange, Breathing, Drugs, Alcohol, Smoking, Nutrients, Food tests, Unhealthy diet, Digestive system, Bacteria and enzymes in digestion.

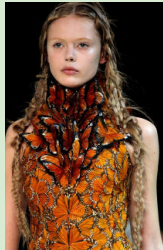


Physics
“Electromagnets” to include:
Magnets and magnetic fields, Using electromagnets.



“Energy” to include: Work, energy and machines, Energy and temperature, Energy transfer of particles, radiation and insulation.



						
Art	<u>Bugs & Beetles</u> Looking at the work of Rosalind Monk, students will explore the use of pattern in creating detailed and intricate bugs 	<u>Bugs & Beetles</u> Students will apply their illustration skills to create a large beetle, which will be embellished in colour and jewels. 	<u>Jewellery making</u> Inspired by the patterns in nature, students will look at examples of artisan jewellery and explore a range of techniques to create their own. 	<u>Fashion design</u> Looking at the work of Alexander McQueen, students will use inspiration from nature to design a garment for their mannequin. 	<u>Seascapes</u> Students will develop a range of painting skills through a scaffolded journey to create a textured seascape scene, painted on canvas. 	<u>Landscapes</u> Developing on the skills built in the previous half term, students will explore the journey from taking 1st hand reference photos and developing them into a relief painting. 

Geography

As cold as Ice

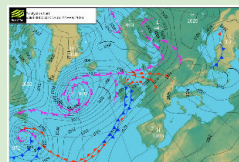
Glaciers are like rivers of ice that flow. Covering 10% of Earth's land, pupils will discover what Britain was like 20,000 and describe how glaciers erode and the landforms they create.



Landforms are found using new OS map skills and a case study is used to learn how glaciers benefit humans.

Weather and Climate Change

Pupils will begin by understanding the causes of the weather. Pupils will become weather experts by discovering the different types of rainfall and will begin interpreting air pressure maps.



Pupils study enhanced global warming and the impacts of climate change. Facts are used to underpin learning and pupils evaluate mitigating climate change strategies

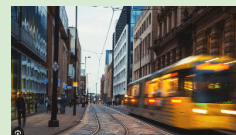
Population

With over 8 billion people now living on Earth, pupils discover the reasons for the exponential growth of population in some areas. Niger is used as a case study to show why birth rates remain high and Japan is used for pupils to investigate the reasons for, and impacts of its declining population.



The Rise of Cities

Today, most people now live in urban areas instead of rural ones. The role of the Industrial Revolution in the UK is assessed and Manchester forms the perfect case study.



Pupils' attention is drawn to urbanisation in other parts of the World with the slums of Mumbai used to demonstrate the benefits and challenges of living in urbanised areas. Cities of the future are identified and the measures taken

Coasts

Pupils will study how the waves shape and change our coast. Key processes will be learnt to then explain how coastal landforms are created. Pupils explore 'Handfast point' famous for Old Harry Rock.



Humans manage the coast and pupils will use a case study to investigate how we manage that part of the coast due to the physical threats that are causing flooding and erosion.

Coasts (continued)

				to ensure sustainability		
History	Tudor Britain  The reign of Henry VIII including his wives and his religious changes.	Tudor Britain  The reigns of Edward VI and Mary I and especially Elizabeth I including the Spanish Armada and Mary Queen of Scots.	Stuart Britain  The reigns of James I including the Gunpowder Plot, Charles I including the Civil War and his execution, Oliver Cromwell and Puritans.	Empire and Slavery  In this topic, pupils will learn about Britain's role in the Trans-Atlantic Slave Trade including; the Trade Triangle, the Middle Passage, A slave auction, life on a plantation. Empire: focussed on Britain's role in India.	Industrial Revolution  How did Britain lead to the world's industrialisation to become the "workshop of the World", including the development of: roads, canals and railways.	Victorian Britain  What was Britain like during the Victorian Era? This unit will focus on the development of modern Britain and will include: factories, inventions and living conditions.
RE	Judaism 1 In this topic, students will learn about Judaism, one of the world's	Judaism 2 Students will continue their study of Judaism through They will	How do we make moral decisions? 1 Students explore different ethical	How do we make moral decisions? 2 Students navigate through tricky	How Hinduism began? 1 Students learn the early stories of different Gods	How Hinduism began? 2 Students continue looking at the stories of ancient

oldest religions. They will follow the early stories of the Torah from influential figures such as Abraham, Joseph and Moses.



explore Jewish beliefs, practices.



As well as introduce challenges of prejudice and discrimination as experienced by Anne Frank during the Holocaust.



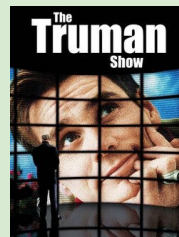
theories on how people make the right decisions.

A first introduction to a branch of philosophy called Ethics.

- Universalism
- Utilitarianism
- Situation Ethics
- Freewill vs Determinism



Many lessons will show decision making in action through the films - The Truman Show & Fantastic Mr Fox



moral dilemmas and apply their understanding to different thought experiments - The Trolley Problem.



Students will also apply different ethical theories to topics of Abortion and Capital Punishment.

Provides an engaging way to develop pupils' critical thinking skills and reflective writing.

of Hinduism.

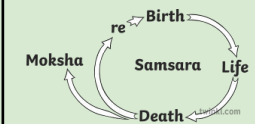
Braham, Shiva & Vishnu



Avatars of Rama and Sita.



Beliefs about the afterlife and reincarnation.

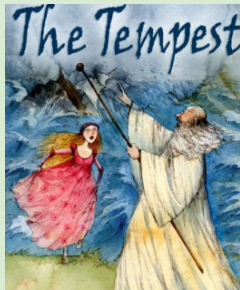


Religious worship in the home and at the Madir.

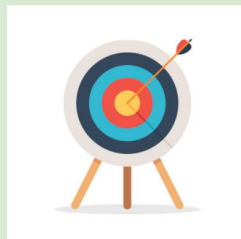
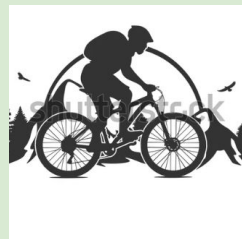
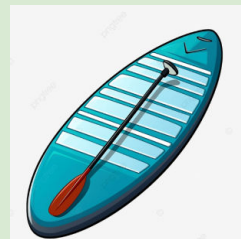
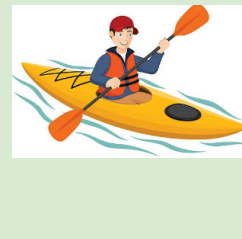


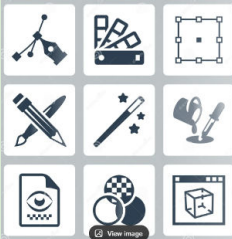
Themes of equality and discrimination will also be explored through the historic caste system in Hindu society.

Farm	Identify 5 risks during a practical farm lesson Pupils will learn to recognise different risks we have on the farm and describe them with more depth, they will ensure they know how to be safe whilst carrying out farm duties. Assessed verbally. 	List 5 ways to minimise the risks on the farm Pupils will be able to describe in more detail how we minimise risks whilst out on the farm including the use of PPE, safety using tools and handwashing. 	Make simple comparisons between feeding and accommodation needs of 5 types of livestock Pupils will work practically with a range of animals on the farm and learn to describe the requirements of each of them. 	Assist with selecting and feeding a range of animals on the school farm Pupils will work with all of the animals on the farm learning about their feeding requirements and the equipment needed to feed them. They will begin to work more independently 	Assist with cleaning out a range of animals on the school farm and selecting appropriate bedding Pupils will help with a range of activities on the farm and this will include cleaning out their accommodation, selecting and preparing suitable bedding. They will begin to understand why we select specific bedding for animals. 	Pupils will help with a range of activities on the farm and this will include cleaning out their accommodation, selecting and preparing suitable bedding, collecting chicken eggs 
Drama	Vocal Skills Pupils will focus on the six main elements of vocal delivery: Volume / pitch / pace / pause / intonation / tone Lessons will involve focused		Physical Theatre With focus on Frantic Assembly theatre company, pupils will turn from vocal to physical as they	The Tempest To strengthen understanding of the Shakespeare text being taught in English, pupils will focus on key	Group Script The class will work together on bringing a short scene to life, including planning make-up, costume and set design. They will learn about auditioning, casting, line learning techniques, blocking and achieving	

	warm-ups and a variety of exercises to emphasise the everyday uses of these skills. We will then go on to explore six script extracts from a range of genres to put these skills into practice, performing to the class when they feel ready - the important learning comes from the creating and rehearsing, there is no pressure to get up in front of an audience.		explore the power of facial expression, posture, gesture, proxemics and nuanced movement to relay relationship dynamics and narratives through a series of exercises.		moments of script and plot in The Tempest, making their own judgments on character status and how a Renaissance audience might receive the play differently to a contemporary one.		clear narrative and characterisation through rehearsal.	
Games	Our major team sports in the Autumn term are rugby and hockey. All pupils will be learning core consents associated with the games.	We continue with rugby and hockey in games through the second half of the Autumn term. By this stage of the academic year we anticipate that a greater proportion of pupils will be confident to play within competition and we will	As we move into the Spring term we progress to football and netball as our major team sports.		We continue the Spring term with football and netball as our major team sports.		In the Summer term our focus shifts towards cricket. Both hard ball and soft ball fixtures will be scheduled depending on the confidence of pupils within the group.	Whilst we continue our focus on cricket in the second half of the Summer term, we also take any spare opportunity within sessions to prepare pupils for the upcoming track and field events within Sports Day.

		schedule additional fixtures accordingly. 				 
Outdoor Education	Students begin the year developing confidence and resilience on the outdoor climbing wall. They learn fundamental safety procedures, equipment use, and climbing techniques such as balance, grip, and route planning. The focus is on building trust, perseverance, and supporting one another while setting personal challenges and goals.	Learning continues with archery, where students are introduced to range safety, correct stance, and shooting technique. They practise accuracy, control, and consistency while developing patience and concentration. Opportunities are provided for personal improvement and friendly competition, helping students build confidence and self discipline.	Students move into mountain biking within the school grounds, focusing on core riding skills such as balance, braking, gear control, and manoeuvring. Emphasis is placed on safety checks, awareness of surroundings, and developing independence while handling the bike across varied terrain.	Mountain biking progresses beyond the school site as students apply their skills on a range of local routes. They build endurance, decision making, and route awareness while experiencing different environments. Teamwork, responsibility, and risk awareness remain key elements throughout this unit.	Students transition into the swimming pool environment where they are introduced to stand up paddleboarding. They learn water safety, board control, balance, and basic paddling techniques. Activities focus on confidence in the water, coordination, and adapting to a new and dynamic setting.	The year concludes with kayaking, building on prior water based learning. Students develop paddling techniques, steering, and control while improving teamwork and communication through paired and group activities. The unit encourages independence, resilience, and enjoyment of outdoor and adventurous activities.

						
Physical Education	In the first half term we look to develop confidence in how we can train our bodies to improve cardiovascular fitness, muscular endurance whilst also developing coordination and flexibility. 	As we progress to net sports we focus our efforts on developing coordination whilst also looking at how to overcome opponents through badminton. Throughout this unit we maintain a focus on including strengthening and mobility movements in every session. 	Through gymnastics our efforts are to develop their technique and improve their performance in other competitive sports. Mastering new skills and overcoming challenges like vaulting are great for developing coordination and confidence. 	Through striking and fielding games we prioritise developing the skills associated with batting, bowling and fielding. Some of these lessons will take place within the cricket nets enabling pupils the opportunity to hone their skills in preparation for the summer. 	Through athletics we are looking to support pupils in analysing their performances across a range of events compared to previous best efforts to demonstrate improvement in their performance. 	In the final half term of the academic year we move onto the tennis courts on the astroturf. During these lessons we do continue to allow those pupils that are preparing for sports day events the opportunities required for additional training.  

IT	Vector Images Students transition from pixels to paths using Inkscape . They explore how vector graphics differ from bitmaps, learning to use the Bezier tool, layers, and Boolean operations to create scalable, professional digital artwork.	Computer Systems Building on Year 7 'Basics', students dive deeper into how hardware and software interact. They explore the Fetch-Execute cycle, the role of the Operating System, and how different components determine a system's overall performance.	Web Development Students act as digital designers to meet a specific client brief. They focus on standard design features and usability, learning how to create logical navigation, consistent layouts, and accessible content that puts the user's needs first.	Turtle (Logic) Using the Bebras Challenge framework, students use block-based 'Turtle' graphics to solve complex logic puzzles. This unit emphasizes decomposition and pattern recognition to draw intricate geometric shapes through code.	Data Representation Students explore how computers "see" the world through numbers. They learn to convert between Denary and Binary, and investigate how text, images, and sound are represented as sequences of 1s and 0s.	Cool Coding (Python) Students are introduced to text-based programming using Python. Following the PRIMM (Predict, Run, Investigate, Modify, Make) methodology, they learn basic syntax, variables, and loops to build their first scripts.
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