



Yardleys
School
WORKING TOGETHER FOR A BETTER FUTURE

Supporting Learning at Home

2022/23

Year 9 – Term 3

This practical 'how-to-guide' is designed to advise how you can support developing your child's long-term knowledge at home.

How can I support my child at home?

At Yardleys we aim to provide students with a curriculum that educates the whole child. We endeavour to ensure that throughout their time at the school they become responsible and respectful citizens that are ready for life. Ultimately through our teaching we want students to know more, remember more and do more. The science tells us that to remember things we need to practice, rehearse and retrieve this information regularly, which will be significantly improved if this can happen at home as well as at school.

This guide will tell you a little bit about memory and share some strategies you may use at home. It will also highlight some subject specific things that you can 'Watch, Listen or Discuss' with your child at home to help this memory process. We have also shared a summary of what they will study throughout the year.

How can we remember things forever?

We have two types of memory:

- **Working Memory:** This has a very small capacity, and information is easily forgotten.
- **Long Term Memory:** This has an unlimited capacity.

If knowledge is only stored in our working memory, it gets **forgotten**. In order for us to 'learn' and be able to recall knowledge, it has to be transferred and stored in our **long-term memory**.

Below are techniques which you can use at home to ensure knowledge can be stored in your child's **long-term memory**:

How can I support my child at home?

1) Tell me what you learnt today

Ask your child to explain something which they studied today in school.

Why?

Asking your child to articulate their thinking consolidates what they have learnt, whilst developing their communication skills. Having to think, and recall what was covered, is a key strategy when transferring knowledge into our long-term memory.

Questions to ask your child:

- What was the most interesting thing you learnt today?
- Tell me three things you learnt in **Science** today.
- What questions did you ask in lesson today?

2) Creating Flashcards

Step 1) Take one page of A4, and cut this into four squares.

Step 2) On the front cover, write the topic title and key question. For example, 'What were the causes of World War II'?

Step 3) On the reverse side write 4-5 short facts which answer the question or are linked to the topic.

Step 4) Test your child at home. Read out the question or topic title, and see how much they can remember.

3) Look, Cover, Write, Check

Step 1) Read through the content in your knowledge organiser.

Step 2) Cover up the information and see how much you can **write from memory**.

Step 3) Go back and **check**. Did you miss anything? If so, add in your corrections in a different colour pen.

Step 4) Repeat again until you can write everything out from memory, with no corrections needed.

PRACTISE ONE

- 1) Most volcanoes and Earthquakes occur along plate boundaries.
- 2) At a convergent plate boundary, plates move towards each other.
- 3) This can occur with one continental plate or two oceanic plates, and one oceanic plate or two continental plates.
- 4) At a divergent plate boundary, plates move away from each other.
- 5) Mostly happens under oceans.
- 6) At conservative plate boundaries, the plates slide past each other.
- 7) Volcanoes can be formed away from plate boundaries, called hotspots.

PRACTISE TWO

- 1) Most volcanoes and earthquakes occur along plate boundaries.
- 2) At a convergent plate boundary, plates move towards each other.
- 3) This can occur with one continental plate and one oceanic plate, or two continental plates.
- 4) At divergent plate boundaries, plates move apart, mostly happens under the ocean.
- 5) At conservative plate boundaries, plates slide past each other.
- 6) Volcanoes can be formed away from plate boundaries called hotspots.

Educational and Cultural Day Trip in Birmingham

Making learning fun and memorable is something that you can support us with heavily outside of school. There are so many educational and cultural opportunities available across Birmingham that you may wish to visit, we have highlighted some of these below.

Midlands Art Centre

There's simply so much on at MAC Birmingham, you'll be spoilt for choice. From breaking up your day in the park with a feature film, to learning a fun new skill like making jewellery or learning the piano, MAC has something for everyone.

MAC Birmingham is dedicated to bringing the arts into the community, with shows and exhibitions to inspire and courses and workshops that open up the artistic world to enquiring minds - young and old alike!

<https://macbirmingham.co.uk/>

National SEA LIFE Centre

National SEA LIFE Centre, The Waters Edge, 3 Brindleyplace,
Birmingham, B1 2HL

Accredited by the Council for Learning Outside the Classroom, Birmingham's National SEA LIFE Centre is a popular attraction for school visits with more than 2,000 creatures to see including sea turtles, sharks and penguins. With a wide range of talks and demonstrations throughout the day and interesting facts about marine habitats, the SEA LIFE Centre is a fantastic place to visit.

www.visitsealife.com/birmingham

Cadbury World

Linden Road, Bournville B30 1JR

Discover the magic of chocolate and the history of the cocoa bean at Cadbury's World. With more than 2,000 groups attending each year, it has become a hotspot for school visits. Learn about the vast history of Cadbury's products and packaging and take a tour to see chocolate making at its best. With a 4D chocolate adventure cinema experience, there is sure to be something for everyone from KS3 to KS5.

www.cadburyworld.co.uk/schools-and-groups

Thinktank, Birmingham Science Museum

Millennium Point, Curzon Street, Birmingham, B4 7XG

Thinktank has an incredible variety of exhibitions and galleries for those interested in science and engineering. Explore the Spitfire Museum, the Marine World gallery and all things astronomy at the Planetarium. Thinktank's Natural Science collection is the largest in the West Midlands and has over 250,000 specimens.

www.birminghammuseums.org.uk

The Library of Birmingham

Centenary Square, Broad St, Birmingham, West Midlands B1 2ND

Why not take a tour of one of the most iconic buildings in Birmingham? The Library is one of Birmingham's biggest tourist hotspots. See the memorial room dedicated to Shakespeare on the top floor with a vast collection of the famous playwright's work. The Library has a number of events and talks, a photography wall, and collections that pay homage to Birmingham's heritage.

libraryofbirmingham.com

Birmingham Botanical Gardens and Glasshouses

Westbourne Road, Edgbaston, Birmingham B15 3TR

With four glasshouses and 15 acres of grounds, the Botanical Gardens and Glasshouses offer school trips like no other. Awarded the Growing Schools garden award by the Department of Education, the Gardens have tailored made activities for different topics and age groups. For teachers who want to lead their own activities, the Botanical Gardens offer a range of resources.

www.birminghambotanicalgardens.org.uk

Museum of the Jewellery Quarter

75-80 Vyse St, Birmingham B18 6HA

A visit to Birmingham's famous Jewellery Quarter is a must. The Museum of the Jewellery Quarter tells the story of the Quarter and the city's renowned jewellery heritage. Set in the Smith & Pepper jewellery manufacturing firm, this fantastic time capsule offers live demonstrations at the jewellers' bench, giving visitors a chance to see what it was like to work there.

www.birminghammuseums.org.uk/jewellery

Birmingham Hippodrome

Hurst St, Southside, Birmingham B5 4TB

The Birmingham Hippodrome is one of the most popular theatres in the UK, regularly attracting over 500,000 visitors at performances every year.

From the Birmingham Royal Ballet to West End shows, the Hippodrome can accommodate groups of all sizes.

Whether it's dance or drama, the theatre is a great venue for students who have an interest in the creative arts.

www.birminghamhippodrome.com

Birmingham Back to Backs

50-54 Inge St, Birmingham B5 4TE

Take a fascinating guided tour of the last surviving courtyard built back to back, a key part of Birmingham's history. From the 1840s to the 1970s discover the lives of the residents who came to work in these small houses. With workshops and a 1930s sweet shop, it is a great place for students to learn about the city's history.

www.nationaltrust.org.uk/birmingham-back-to-backs

Electric Cinema

47-49 Station St, Birmingham B5 4DY

Birmingham is home to the UK's oldest working cinema, which is now complete with luxury sofas and a waiter service. With regular showings of the latest movies from foreign, classic, independent and contemporary – this is a perfect school trip for students interested in film and media.

www.theelectric.co.uk

Black Country Living Museum

2 Tipton Rd, Dudley, West Midlands DY1 4SQ

The Black Country Living Museum caters to all ages from primary school to secondary. Whether it is geography, science, history, design or literacy, the museum has a range of learning tools to assist with your visit. Celebrating the 1830s industrial landscape, take a tour of the Museum's village to hear the stories of people in their workshops. See vintage transport, play games and explore over 26 acres that celebrate a key part of history in the West Midlands.

www.bclm.co.uk

Aston Villa and Birmingham City Football Stadium Tours

Aston Villa Football Club, Villa Park, Birmingham, B6 6HE

Birmingham City Football Club, St. Andrew's Stadium, Birmingham, B9 4RL

Birmingham is home to two famous football clubs, with Aston Villa one of only a handful of English teams to lift the European Cup. Why not visit the stadia where historic footballing memories took place? From the press room and

the players' tunnel to the dressing rooms and hallowed turf itself, these tours are perfect for students who love sport.

www.avfc.co.uk/page/StadiumTours

www.bcf.com/tickets/Stadium_Tours.aspx

St George's Park – The Ultimate Football Experience

St. George's Park, Newborough Road, Needwood, Burton upon Trent, Staffordshire, DE13 9PD, UK

Ever wondered where the England football team trains? Not far from Birmingham is St George's Park. The Ultimate Football Experience is a brilliant way to help and encourage students to take part in sport, offering a trained FA coach, 3G pitch and fun football activity sessions on the grounds where England's best players – including Wayne Rooney, Joe Hart and Harry Kane – perfect their art.

www.thefa.com/st-georges-park

Birmingham Museum and Art Gallery

Chamberlain Square, Birmingham, B3 3DH

The Birmingham Museum and Art Gallery is one of the most visited attractions in Birmingham, right in the centre of the city. It is home to the world's biggest collection of Pre-Raphaelite paintings, while exhibitions and over 40 galleries also ensure it is a popular destination for educational visits. See artefacts and objects throughout history from Ancient Egypt to the Romans and Ancient Greece.

www.birminghammuseums.org.uk/bmag

Ikon Gallery

1 Oozells St, Birmingham B1 2HS

Celebrating modern art from across the globe, Birmingham's Ikon Gallery is housed in a Victorian school building in Brindleyplace, beside the city's canals. Whether it is painting, sculptures, mixed media or photography, there is something for everyone. Learn about the meaning behind these visual masterpieces through seminars, tours and workshops that enable visitors to share and discuss their views. Pupils can engage through creative learning, and teachers will have access to a number of resources so that students can make the most out of their visit.

ikon-gallery.org

The Wonderful World of Planes and Trains

3 Mary Ann Street, St Paul's Square, B3 1BG

An interactive and fun way to learn about the history of trains from the 1890s to today. With a number of engaging activities such as plane flight simulators, Scalextric, and train travel workshops – it's the perfect day out for a school trip.

wonderfulworldtrainsplanes.co.uk

Birmingham Repertory Theatre

Broad Street, Birmingham B1 2EP

The REP – as it is commonly known – has a Learning and Participation team that visit schools to give a greater understanding of theatrical technique. Drama is a fantastic way to develop communication skills and improve confidence, and the REP has workshops that will help students develop these skills through theatrical exercises. The theatre also has a number of exciting productions throughout the year that you don't want to miss.

www.birmingham-rep.co.uk

Birmingham Conservation Park

Birmingham Wildlife Conservation Park, Pershore Road, Edgbaston, B5 7RL

The Birmingham Wildlife Conservation Park is home to a number of animals from squirrel monkeys to the Green Tree Python. The park is focused on helping endangered species with a captive breeding programme. With educational talks and campaigns, it is a great way to learn about the animals, their habitat and to encourage

students to volunteer.

www.birmingham.gov.uk/naturecentre

West Midlands Safari Park

Bewdley, Worcester, DY12 1LF

Are you ready for an adventure, one that spans continents, species and millions of years? West Midland Safari Park has just the thing all wrapped up and raring to go! Interact with beautiful animals from nocturnal monkeys to African lions, there are many surreal animal encounters to experience. Grab your ride wristbands, find your favourite animal and most of all have an amazing experience!

<https://www.wmsp.co.uk/>

The Birmingham Mystery Treasure Trail

Snow Hill Train Station, Birmingham, West Midlands, B3 2BJ, England

If you're looking for a cost-effective family day out then The Birmingham Mystery Treasure Trail is for you!

Follow the 1.5-mile route through Birmingham on this self-guided themed Treasure Trail. Hunt for clues located on permanent features such as buildings and statues to solve the mysteries, and discover something new about where you live!

<https://www.treasuretrails.co.uk/products/days-out-birmingham-west-mids?variant=39342365212717>

YARDLEYS YEAR 9 CURRICULUM

Subject	Term 1		Term 2		Term 3	
English	Prose: 'Animal Farm' Long Writing: Toxic Masculinity		Play: Romeo and Juliet		Conflict Poetry Anthology and Imaginative Writing	
Math	Foundation: <ul style="list-style-type: none"> Place Value and intro to standard form Rounding and estimation Decimals and negative numbers Forming expressions Basic angles and parallel lines 	Foundation: <ul style="list-style-type: none"> Bearings/maps and scales Basic indices Expand & factorise single brackets Tables & charts Scatter graphs FDP - equivalence 	Foundation <ul style="list-style-type: none"> Compound measures (speed) Percentages of an amount/expressing/comparing Substitution via linear and quadratic graph tables Solving linear equations Angles in triangles and quadrilaterals 	Foundation: <ul style="list-style-type: none"> Interior and exterior angles in polygons Pie-charts Averages Operations with fractions Probability 	Foundation: <ul style="list-style-type: none"> Rearranging Introduction to Pythagoras' theorem Solving and representing inequalities BIDMAS and units of measure Simultaneous equations Constructions & loci 	Foundation: <ul style="list-style-type: none"> Area and perimeter of 2D shapes incl. circles Expanding and factorising double brackets Transformations
	Higher <ul style="list-style-type: none"> Place Value Rounding Negative Numbers Expressions Basic Angles and Parallel lines FDP of Amounts Bearings and Scales 	Higher <ul style="list-style-type: none"> Indices, Expand & Factorise single brackets Pie Charts Averages of discrete data Estimation Operations with Fractions 	Higher <ul style="list-style-type: none"> FDP equivalence Recurring decimals Substitution Solving linear Equations Angles in polygons Averages from tables Cumulative frequency and box plots 	Higher <ul style="list-style-type: none"> Simplify algebraic fractions Proof Standard form with and without calculator Compound measures Probability basics 	Higher <ul style="list-style-type: none"> Rearranging incl. forming from ratios Pythagoras & SOH CAH TOA Area of 2D shapes inc part circles Expanding Double/Triple Brackets Equating coefficients 	Higher <ul style="list-style-type: none"> Factorising and solving quadratics when $a=1$, Linear graphs ($y=mx+c$) Linear simultaneous equations and graphs Quadratic graphs and formula Transformations
Physics	Forces and Motion		Forces		Energy	

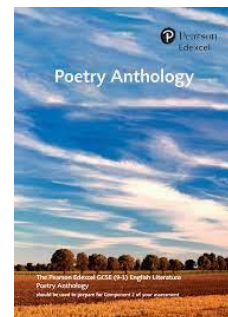
Subject	Term 1		Term 2		Term 3	
Chemistry	Matter and Separating Mixtures Overarching Concepts (Part 1)		Overarching Concepts (Part 2 and 3)		Chemical Changes	
Biology	Ecosystems and Material cycles		Key concepts Exchange and transport in Animals		Plant structures and their functions	
Geography	Urban change in Birmingham The World Ocean		Geography of East Africa Glacial environments in a warming world		Population & migration UK in the wider world – trade and allegiances	
History	Britain's role in the transatlantic slave trade Women's suffrage		Hitler and the Holocaust The Second World War		The End of the British Empire Protest in Britain	
RE	Religious persecution and suffering and Buddhist teachings concerning overcoming suffering.		A history of human rights and peace initiatives.		The science and religion debate.	
MFL Spanish and French	My Family and I		Holidays		School	
Computing	Introduction to Python Python Sequences		Media Animations Data Science		Representations Cyber security	
Creative Media	Creative History		Character design focusing on artist 'Gawx' using painting techniques, vacuum forming and 3D construction.			
Physical Education	Invasion Games – Football	Net and Wall Games – Volleyball	Invasion Games – Basketball	Fitness and problem solving	Striking and Fielding - Cricket	Athletics

Your Child Needs You!

Here at Yardleys, we understand that it can sometimes be difficult to know how best to support your children through their studies. But we also know that the more our students talk about their work, both inside and outside of school, the deeper and more flexible their learning. We need you to help us promote the school values of curiosity and reflection beyond our classrooms and, in doing so, help your child on their journey to GCSE success!

Each term, the English Department will be sending home suggestions for activities, reading and discussion you could do with your child at home to help support their learning in school – you may remember our previous letters about ‘Animal Farm’ and ‘Romeo and Juliet’ earlier this year last. **Re-reading with your child the text they are studying in class, or reading it yourself alongside the in-class schedule, is one of the best ways you can help support your child at home.** We know that time is precious and are not asking you to take over the teaching, but we also know how keen many parents are to do as much as possible to help their children reach their potential. So, whether it’s sitting down and watching a film or documentary, listening to a podcast or debating some big topics over the dinner table, we hope to have something for you!

This term, in Year 9, students will be preparing for their English Literature GCSE by exploring an anthology of poetry based around the theme of conflict. All students will be provided with a free copy of the text (see top right) and will be expected to use this to make notes on the 15 poems we study, keeping it safe and bringing it with them to each lesson. If students do not have it with them they will receive a detention and, if it is lost, will be expected to replace it, buying a new copy via Parent Pay.



Autumn Term Week	Classroom Teaching Focus	Questions for Discussion at Home and Additional Learning Resources		
		Watch on ClickView	Listen on Spotify/BBC Sounds	Discuss together
Week 1 (17.04.22)	‘The Destruction of Sennacherib’	<ul style="list-style-type: none">• BBC Teach: Ciaran Carson on ‘Belfast Confetti’• Southbank Centre: Johan Agard, Guyana• ClickView: Panorama, ‘Let’s Talk About Race’• ClickView: Leigh-Anne: ‘Pop, Race and Power’• BBCiPlayer: Tan France: Beauty and the Bleach	<ul style="list-style-type: none">• ‘Witness History: World War I Poetry’.• ‘In Our Time: The Charge of the Light Brigade’• ‘Straight Talking English’ Podcast’: S4, Eps 11, 12 and 13 about ‘Poppies’, ‘The Charge of the Light Brigade’ and ‘Exposure’• ‘Dan Snow’s History Hit: The Troubles: how it Started’• Remember to also check out GCSEPod for more relevant pods.	<ul style="list-style-type: none">• Is conflict ever necessary?• How might people affected by conflict feel?• To what extent do you think those actively involved in conflict understand its purpose?• How might we avoid conflict?• How is conflict expressed differently?
Week 2 (24.05.22)	‘The Charge of the Light Brigade’			
Week 3 (01.05.22)	‘The Man He Killed’ and ‘Exposure’			
Week 4 (08.05.22)	‘What Were They Like?’ and ‘War Photographer’			
Week 5 (15.05.22)	‘Belfast Confetti’			
Week 6 (22.05.23)	‘Poppies’ and ‘Catrin’			
Half Term				
Week 7 (05.06.22)	‘Cousin Kate’			
Week 8 (12.06.22)	‘A Poison Tree’ and Extract from ‘The Prelude’			
Week 9 (19.06.22)	Assessment Fortnight and Feedback			
Week 10 (26.06.22)				
Week 11 (03.07.22)				
Week 12 (10.07.22)	‘No Problem’ and ‘Half-Caste’			
Week 13 (17.07.22)	‘The Class Game’			
End of Term				



Subject: Maths – Year 9

Summary

TERM 3 Week/Time	Teaching Focus	Possible activities at home	
		Watch and Make Notes	Discuss
Week 1: 17/4/23	Angles in Polygons	http://corbettmaths.com/2012/08/10/angles-in-polygons/	How does splitting a shape up into triangles reveal its total interior angles?
Week 2: 24/4/23	Angles in Parallel Lines	http://corbettmaths.com/2013/04/04/parallel-lines-angles/	Draw and annotate the three parallel line facts – Co-interior Angles, Alternate Angles and Corresponding Angles
Week 3: 1/5/23	Bearings and Scale	http://corbettmaths.com/2013/03/27/bearings/	What are the three rules of bearings?
Week 4: 8/5/23	Pythagoras' Theorem	http://corbettmaths.com/2012/08/19/pythagoras-video/	What is Pythagoras' Theorem? Can you draw a diagram that represents it?
Week 5: 15/5/23	Trigonometry	http://corbettmaths.com/2013/03/30/trigonometry-introduction/ http://corbettmaths.com/2013/03/30/trigonometry-missing-angles/	When can you use each of the SOHCAHTOA ratios?
Week 6: 22/5/23	Trigonometry	http://corbettmaths.com/2013/03/30/trigonometry-missing-sides/	When do you need to use the SHIFT button on your calculator?
Week 7: 5/6/23	Best buy	http://corbettmaths.com/2013/03/26/best-buys/	What is the unitary method?
Week 8: 12/6/23	Direct Proportion	http://corbettmaths.com/2013/04/04/direct-proportion/	Describe two things that are in direct proportion. What would the graph look like?
Week 9: 19/6/23	Pie Charts	http://corbettmaths.com/2013/02/27/drawing-a-pie-chart/	How do you calculate the angle to draw on a pie chart?
Week 10: 26/6/23	Revision	Personal Revision – Assessment Books & Mini Tests	
Week 11: 3/7/23	Assessment Week	Personal Revision – Assessment Books & Mini Tests	
Week 12: 10/7/23	Scatter diagrams	http://corbettmaths.com/2012/08/10/scatter-graphs/	What is a line of best fit? How do you draw it on a scatter graph? What is an outlier?
Week 13: 17/7/23	Data investigation	http://corbettmaths.com/2013/04/20/data-handling-cycle/	What do I need to think about when I collect data questionnaires? Why?



Subject: Year 9 Biology **Exam Board:** Edexcel

Science helps students gain an understanding of the world around them, from the micro-level of particles and atoms to the macro-level of our expanding universe. It encourages students to question and enquire in order to learn more. We want our students to acquire the scientific knowledge and skills to meet their academic, practical and “real life” challenges of the future.

Term	Teaching Focus	Possible activities at home		
		Watch	Listen	Discuss
Summer term				
Summer term	Topic 8 Exchange and Transport in Animals	Blood circulation (Clickview) https://online.clickview.co.uk/exchange/videos/36991155/transport-and-exchange-blood-circulation	The First Heart Transplant: Beat by Beat (BBC Podcast) https://www.bbc.co.uk/sounds/play/b09h3v2n	Explore the events leading up to the first heart transplant and reflect on the consequences of that extraordinary medical breakthrough.
		The Cardiovascular System (Clickview) https://online.clickview.co.uk/libraries/videos/3714369/the-cardiovascular-system	Diseases of The Blood (BBC Podcast) https://www.bbc.co.uk/sounds/play/p035cwtx	Can we prevent heart conditions, such as coronary artery disease?



Subject: Year 9 Chemistry

Science helps students gain an understanding of the world around them, from the micro-level of particles and atoms to the macro-level of our expanding universe. It encourages students to question and enquire in order to learn more. We want our students to acquire the scientific knowledge and skills to meet their academic, practical and “real life” challenges of the future.

Term	Teaching Focus	Possible activities at home		
		Watch	Listen	Discuss
Summer 1	Topic C1 (Part 3) Key Concepts of Chemistry	<p>How Are Empirical and Molecular Formulas Calculated?</p> <p>This film explains how to calculate empirical and molecular formulae.</p> <p>(Clickview) https://online.clickview.co.uk/libraries/videos/52938235/how-are-empirical-and-molecular-formulas-calculated-</p>	<p>Reacting Masses</p> <p>This chapter looks at how we can use equations to calculate the masses of substances that react with one another in reactions. We'll also be able to predict how much product is made.</p> <p>(GCSE Pod) https://members.gcsepod.com/shared/podcasts/title/11300/69615</p>	<p>What does a 'mole' mean in chemistry? Who invented the 'mole' concept?</p> <p>How do we work out a percentage of an element in a chemical formula?</p>
Half term				
Summer 2	Topic C3 (Part 1) Chemical Changes	<p>How do we carry out a titration experiment?</p> <p>This films explains the method of how to carry out a neutralisation reactions between an acid and an alkali.</p> <p>(Clickview) https://online.clickview.co.uk/exchange/videos/37970182/chemistry-titration</p>	<p>Making Salts</p> <p>Say 'salt' to most people and they will think of the white stuff they use in cooking, or put on their fish and chips. This is a salt, but its proper scientific name is sodium chloride. The scientific definition of salt is an ionic compound resulting from a neutralisation reaction</p> <p>(GCSE Pod) https://members.gcsepod.com/shared/podcasts/title/10926/69538</p>	<p>What's the difference between concentration and pH of an acid?</p> <p>What do indicators do and why are they useful?</p>



Subject: Physics

Science helps students gain an understanding of the world around them, from the micro-level of particles and atoms to the macro-level of our expanding universe. It encourages students to question and enquire in order to learn more. We want our students to acquire the scientific knowledge and skills to meet their academic, practical and “real life” challenges of the future.

Physics in particular aims to explain the world in terms of the interactions between forces, energy and matter.

Term	Teaching Focus	Possible activities at home		
		Watch	Read	Discuss/Research
Summer 1	Waves This topic covers waves, a way in which energy and information is transferred. <ul style="list-style-type: none"> Types of waves. Sound and hearing. How waves transfer energy. 	Waves and Energy https://online.clickview.co.uk/exchange/videos/26758513/waves Properties of waves https://online.clickview.co.uk/exchange/videos/26758289/waves-example-a https://online.clickview.co.uk/exchange/videos/26758208/waves-example-b Interaction of Waves https://online.clickview.co.uk/exchange/videos/26758235/interactions-of-waves	Waves Summary: https://www.thesciencehive.co.uk/properties-of-waves-gcse	1. List similarities and differences between longitudinal and transverse waves. 2. Discuss how waves change when they interact with material. 3. Methods of measuring wave speed.
Half term				
Summer 2	The Electro-magnetic Spectrum In this topic, the students will look in detail at the different types of light and how they behave. <ul style="list-style-type: none"> Refraction. Lenses. Uses of different types of light. Dangers of different types of light. 	Types of light and optical effects: https://online.clickview.co.uk/libraries/videos/48022703/light More detail about each type of light: https://online.clickview.co.uk/libraries/videos/3717048/shedding-light-on-electromagnetic-waves Jim Al-Khalili on how light has helped physicists: https://online.clickview.co.uk/exchange/videos/80191/light	Bitesize EM Spectrum overview: https://www.bbc.co.uk/bitesize/guides/z66g87h/revision/1 Herschel and discovery of light beyond visible: https://spark.iop.org/william-herschel-and-discovery-infra-red-radiation	How many uses of lenses can you think of? How would life be different if the non-visible forms of EM light didn't exist? Why is glass so important for our understanding of science?



Subject: Year 9 Computing

Through our ambitious computing curriculum our learners will have access to a broad and balanced range of topics including: digital literacy, computational thinking and modern technology. Yardley's computing curriculum will provide students with an understanding of how computing underpins today's modern lifestyle and has made the world better, faster and more connected. We ensure that the students at Yardleys can develop to become masters and creators in this field, to aid them in their development of our rapidly changing technological world.

development of our rapidly changing technological world.

Term 3 Week/Time	Teaching Focus	Possible Activities at Home	
		Watch and Read	Discuss
Representation			
Week 1 – 17.04.23	Uncover the problems we solve through writing. Discover how Computing is also about solving these problems.	https://teachers.thenational.academy/lessons/across-time-and-space-c4vp8c	Discuss what they have learnt in lessons including how computers store data, the different storage units and how to understand binary.
Week 2 – 24.04.23	Recall that representations are used to store, communicate, and process information.	https://teachers.thenational.academy/lessons/lights-and-drums-70r6cr	
Week 3 – 01.05.23	To encode, transmit, and decode short messages, with each group using a different coding scheme and communication medium.	https://teachers.thenational.academy/lessons/binary-digits-68wp4t	
Week 4 – 08.05.23	Explain what binary digits (bits) are, in terms of familiar symbols such as digits or letters.	https://teachers.thenational.academy/lessons/numbers-in-binary-c4rkge	
Week 5 – 15.05.23	Converting decimal numbers to binary and vice versa.	https://teachers.thenational.academy/lessons/large-quantities-cn6cd	
Week 6 – 22.05.23	Understand different units of data.	https://teachers.thenational.academy/lessons/turings-mug-cgkcc	
Half Term			
Cybersecurity			
Week 7 – 05.06.23	Explain the difference between data and information. Critique online services in relation to data privacy.	https://teachers.thenational.academy/lessons/you-and-your-data-c4t30t	Discuss what they have learnt in lessons including the different malwares and the problems they cause to computer system. The main outcome is to identify the most effective method to prevent a cyberattack.
Week 8 – 12.06.23	Recognise how human errors pose security risks to data. Implement strategies to minimise the risk of data being compromised through human error.	https://teachers.thenational.academy/lessons/social-engineering-6cr68r	
Week 9 – 19.06.23	Define hacking in the context of cybersecurity. Explain how a DDoS attack can impact users of online services.	https://teachers.thenational.academy/lessons/script-kiddies-64u3ed	
Week 10 – 26.06.23	Examine how different types of malware cause problems for computer systems. Question how malicious bots can have an impact on societal issues.	https://teachers.thenational.academy/lessons/rise-of-the-bots-chk3ac	
Week 11 – 03.07.23	Compare security threats against probability and potential impact to organisations. Identify how networks can be protected from common security threats.	https://teachers.thenational.academy/lessons/theres-no-place-like-127001-6rt66t	
Week 12 – 10.07.23	Identify the most effective methods of preventing cyberattacks.	https://teachers.thenational.academy/lessons/under-attack-70rprcr	
Week 13 – 17.07.23	Implementing all skills learnt into a practical exercise.	https://teachers.thenational.academy/lessons/under-attack-70rprcr	



Subject: MFL – French – Year 9

In this term students in Year 9 will learn will be learning to talk about new technology, films, books and music. They will express their opinions and discuss how to stay safe online, as well as talking about how they use their mobile phones. They will also express their interests in films, books and music.

Login for Linguascope:

www.linguascope.com

Username: yardleys

Password: love4langs

TERM 3 Week/Time	Teaching Focus	Possible activities at home		
		Watch	Play and Interact	Discuss
Week 1 – 17.4.23	New technology	Using the internet: https://classroom.thenational.academy/lessons/using-the-internet-part-13-c8u62e https://classroom.thenational.academy/lessons/using-the-internet-part-33-ccu32d Staying safe online: https://youtu.be/TOiWFQQQ_04	Linguascope: Beginners – Les loisirs – sur l’ordinateur	How can you protect yourself on social media?
Week 2 – 24.4.23	Social media			
Week 3 – 1.5.23				
Week 4 – 8.5.23	Pros and cons of technologies			
Week 5 – 15.5.23				
Week 6 – 22.5.23	Staying safe online			
Half term				
Week 7 – 5.6.23	TV	Talking about reading: https://classroom.thenational.academy/lessons/talking-about-books-11-6rtp6t Talking about TV programmes: https://classroom.thenational.academy/lessons/talking-about-tv-programmes-part-12-c4tkje	Linguascope: Intermediate – Les médias Beginners – les genres de films ; à la télé	Do you know any famous French film writers? Have you seen any French films, or films with French spoken?
Week 8 – 12.6.23	Cinema			
Week 9 – 19.6.23	Reading			
Week 10 – 26.6.23				
Week 11 – 3.7.23	Assessment week			
Week 12 – 10.7.23	Music			
Week 13 – 17.7.23	Assessment feedback			



Subject: Geography

The Intent of the Geography curriculum is to educate all students to be global citizens (someone who can empathise with different people with different lifestyles, landscapes and situations around the world), to have an understanding of the world beyond and linked to Tyseley – enough to spot misleading information about the wider world and make evidence-based decisions. We will do this by developing their knowledge and understanding of the key Geographical concepts of sustainability, process, development & enquiry.

In this term students in Year 9 will focus on two topics. First, we will reintroduce the issues of population management and migration, with a look at the issues of both an aging and a youthful population. We will then take a look at the UK's place in the wider world and at our alliances and trade.

TERM 3 Week/Time	Teaching Focus	Possible activities at home		
		Watch	Read	Discuss
Week 1 – 17.4.23	What are the opportunities and challenges of having a youthful and an aging population?	Crash course Geography - how populations grow and change YouTube link	Population & migration BBC bitesize	How has life expectancy changed in your family’s lifetime?
Week 2 – 24.4.23			European Migration - a site that gathers many different news stories hyperlink	
Week 3 – 1.5.23				
Week 4 – 8.5.23	What is the Demographic Transition Model?	The UKs migration History (Challenging!) YouTube link	How the UKs population is changing and why it matters (Challenging!) hyper link	Is it right for a counties government to either restrict or encourage the number of children you can have?
Week 5 – 15.5.23	How can people migrate to the UK legally? Why do some choose to do it illegally?			
Week 6 – 22.5.23				
Week 7 – 5.6.23	How does the UK make its money as a country? Why do we trade with and what products do we trade?	The history of Queen Elizabeth II and the Commonwealth BBC iPlayer	UK and the Commonwealth (Challenging) hyperlink	Has the UK left the EU or Europe? What is the difference?
Week 8 – 12.6.23				
Week 9 – 19.6.23				
Week 10 – 26.6.23	What is the UKs place in the modern world?	Brexit - a summary Youtube link	Explaining Brexit Firstnews	What is the Commonwealth?
Week 11 – 3.7.23	Revision, assessment and feedback			
Week 12 – 10.7.23				
Week 13 – 17.7.23				



Subject: History

We aim to foster a passion for History to encourage students to become historians. Throughout their studies students will develop a good understanding of significant events in British history and aspects of world history, and how these impact the way we live today. Content is covered chronologically while revisiting themes such as power, protest, women, local history, wider world, empire and conflict. These first order concepts are analysed with second order concepts, such as causation, consequence, similarity and difference, chosen because they fit the content best. We aim for students to be involved in national conversations and provide context to wider understanding, helping them explain the way the world is today.

In this term students in Year 9 will be studying the Second World War,

In this term students in Year 5 will be studying the Second World War,				
TERM 3 Week/Time	Teaching Focus	Possible activities at home		
		Watch	Read	Discuss
Week 1 – 17.4.23	The Second World War	Battle of Stalingrad: Armchair Historian (YouTube) Footage of D-Day (YouTube) Hiroshima: Dropping the bomb Birmingham bombing WW2	The Battle of Stalingrad (IWM) D-Day (History.com) Should the atomic bomb have been dropped? Where was bombed in Birmingham?	<ul style="list-style-type: none">• Which turning point was the most important?• What do you think would have happened if the Germans had won either battle?• Should the atomic bomb have been dropped?• How different was Birmingham’s role in WW2 to WW1?
Week 2 – 24.4.23				
Week 3 – 1.5.23				
Week 4 – 8.5.23				
Week 5 – 15.5.23				
Week 6 – 22.5.23	End of the British Empire	How the British Empire crumbled Why was India split into two countries? The Windrush Generation	End of the British Empire Partition: Why was British India divided? Windrush Generation: Who are they and why are they facing problems?	<ul style="list-style-type: none">• How different do you think the world would be if the British Empire hadn’t ended?• What were the major benefits of the British Empire ending?
Half term				
Week 7 – 5.6.23	End of the British Empire			
Week 8 – 12.6.23				
Week 9 – 19.6.23	Protest in Britain	Remembering the Bristol Bus Boycott How women fought for sexual and society equality History of LGBTQ rights in the UK Rights for people with disabilities	Bristol Bus Boycott Timeline of Women’s Liberation Movement A history of LGBTQ rights Timeline of disability rights	<ul style="list-style-type: none">• Which group was the most successful?• Which group do you think has the longest way still to come?
Week 10 – 26.6.23				
Week 11 – 3.7.23	Revision, assessment and feedback			
Week 12 – 10.7.23				
Week 13 – 17.7.23				



Subject: **Music**

During the summer term, we will begin to expand our deepening musical experience across band skills, samba ensemble and music technology.

At Yardleys, musical progression is taught across a range of instruments and within a wide range of contexts and traditions. Within each of these areas, Musical progress is anchored to three main threads that is common in all topics, contexts and instrumental studies across Key Stage 3 and 4;

- 1. Show musical awareness to perform sympathetically with the ensemble.**
- 2. React musically and play accurately from a range of stimuli where appropriate.**
- 3. Understand and develop a strong sense of interconnected musical dimensions through performance, appraisal and composition.**

It is in embedding these three areas of knowledge that empowers students to engage in and take responsibility for their musical progress, into being lifelong musical enthusiasts enriched with the skills and knowledge to continue making musical progress beyond the classroom

Making musical progress beyond the classroom				
Week/Date	Teaching Focus	Additional Home Learning Activities		
		Watch	Listen	Discuss
Week 1 – 7.4.23	Ensemble: - Active listening skill (See You Again) focus- embedding strong technique across multiple instruments. Building active listening skills through rehearsal and performance. Performance skills- maintaining a part, following a tempo, reacting musically to each other. Engagement with written musical language- Chord boxes, TAB, standard notation. Appraisal focus:- Rhythmic devices, intervals, pitch, chords, harmony.	Thundercat- Them Changes with John Batiste (Youtube)	How to listen to Music like a pro- 12Tone.	What is active listening in Music?
Week 2 – 4.4.23		Multi-Instrumental Live Looping - Reinhardt Buhr (Youtube) Jackie and Wilson – Hozier (Youtube)		What is harmony?
Week 3 – 1.5.23				
Week 4 – 8.5.23	Percussion ensemble:- Samba Music (Polyrhythms) Performance skills- maintaining an independent part, following a tempo, reacting musically to each other. Engagement with written musical language- Rhythmic notation. Appraisal focus:- Rhythmic devices, dynamics, structure, texture.	The real samba rhythm – Edu Ribeiro (YouTube) Bateria Batucada (YouTube)	Episode 109: The Tango and Samba - 15 Minute History Podcast Latin Roots:- The History of Samba (NPR)	What does the 'head' of a musical piece mean? What are 'calls'? What is the purpose of Samba music and wider Folk music?
Week 5 – 5.5.23				
Week 6 – 2.5.23				
Half term				
Week 7 – 05.06.23	Music Technology 2:- Structure, Harmony, Melody. Composing using chord sequences, target notes for melodic structure, texture, DAW, Engagement with written musical language- Piano Roll, step sequencing, drum maps.	Remake 'Through the wire' MPC Live.(YouTube) Recreating 'One More Time' Daft Punk MPC Live (YouTube).	The Producer Hive Podcast Wannabe - Guitar Arrangement Song Exploder Podcast	What does 'shape' mean when it comes to melody? What is harmony in music?
Week 8 – 12.06.23				
Week 9 – 19.06.23				
Week 10 – 26.06.23	Ensemble Development - Band accuracy, musicality, active listening skills, engagement with written musical language, effective instrument-specific technique including finger numbering system, wrist and arm posture and development of control. Engagement with written musical language- Sight reading- Tablature, standard notation, drum tab.	Muse – Plug-in Baby Live in Rome. (YouTube)	Lonely Boy – Black Keys.	What is active listening in Music?
Week 11 – 03.07.23		Foo Fighters – Run Live at Glastonbury (YouTUBE).	Snap out of it- Arctic Monkeys.	What is harmony? How do we build major and minor chords?
Week 12 – 10.07.23				
Week 13 – 17.07.23				



Subject: Religious Studies (year 9)

Summary: What are some non-religious responses to key religious ideas?

TERM 3 Week	Teaching Focus	Possible activities at home		
		Watch	Read	Discuss
Week 1 – April 17th	Holy books – what are varying views on them and how they should influence our world?		https://www.worldatlas.com/religion/sacred-texts-of-major-world-religions.html	How might religious believers interpret holy texts in different ways?
Week 2 – 24 th April	Salvation – can one person ever be infallible and save us or is there no such thing as salvation – is this life it?	https://www.youtube.com/watch?v=vKflKswvU6s	https://www.bbc.co.uk/bitesize/guides/z683rwx/revision/6	What is your view on the idea of salvation?
Week 3 – 1 st May	What is meant by the enlightenment and the scientific method and why did this lead a group of people to feel that a belief in God was no longer required?	https://www.youtube.com/watch?v=70lwaa8ZHpk	https://www.theclassroom.com/the-age-of-enlightenment-for-kids-12084377.html	How did the enlightenment thinkers differ in their explanations of the world compared to religious thinkers that came before them?
Week 4 – 8 th May	Do we need God as an explanation of why there is something rather than nothing?		https://theconversation.com/answering-the-biggest-question-of-all-why-is-there-something-rather-than-nothing-65865	What do you think about this week's big question?
Week 5 – 15 th May	Presentation of the scientific enlightenment.		https://kids.britannica.com/kids/article/Enlightenment/353103#:~:text=Enlightenment%20thinkers%20applied%20science%20and,a%20fair%20chance%20in%20life.	What have you learnt about the scientific enlightenment?
Week 6 – 22 nd May	Do spiritual beings like angels, demons and Jinn really exist or has science disproved these?	https://www.youtube.com/watch?v=9VtsVxVyn1g	https://today.yougov.com/topics/society/articles-reports/2019/10/21/paranormal-beliefs-ghosts-demons-poll	Can you explain why angels, Jinn and other supernatural beings cannot be proven through the scientific method and are therefore spiritual rather than factual?
Half term				
Week 7 – 5 th June	Do religious experiences and miracles prove that God exists?	https://www.youtube.com/watch?v=pKcTXDgt5il	https://revisionworld.com/a2-level-level-revision/religious-studies/philosophy-religion/miracles/concept-miracles	Do you think that miracles can happen? What are your reasons for holding this belief?
Week 8 – 12 th June	What is meant by the humanist movement and why do humanists feel there is a need to protect secular values?	https://www.youtube.com/watch?v=Y3wraQXSSjE&embeds_euri=https%3A%2F%2Fhumanists.uk%2F&feature=emb_imp_woyt	https://humanists.uk/humanism/	What do you think about the humanist movement?
Week 9 – 19 th June	Does science mean that we no longer need religion or can religion and science co-exist?		https://www.bbc.co.uk/bitesize/guides/zqphw6f/revision/3	Can a person trust the scientific method whilst also believing in God? Or has science led to a belief in God being unreasonable?
Week 10 26 th June	Essay writing			
Week 11 – 3 rd July	Revision strategies			



Subject: MFL – Spanish – Year 9

In this term students in Year 9 will be able to talk about and express ideas and opinions on technology and social media. We will embed the use of tenses and complex language.

Login for Linguascope:

www.linguascope.com

Username: yardleys

Password: love4langs

TERM 3 Week/Time	Teaching Focus	Possible activities at home		
		Watch	Play and Interact	Discuss
Week 1 – 17.4.23	What do you do on the computer?	BBC Bitesize: technology https://www.bbc.co.uk/bitesize/guides/znyprj6/revision/1 Oak Academy: use of social media https://teachers.thenational.academy/lessons/talk-about-social-media-part-13-cgw66c?from_query=redes+sociales	Linguascope: Beginners – el ocio – tipos de películas / en la tele / en el ordenador	Which device do you prefer to use and why? Do you have a social media account? Which one(s) do you have and which is your favourite and why? Do you know how to keep yourself safe online?
Week 2 – 24.4.23	What do you do on the internet?			
Week 3 – 1.5.23	Social Media			
Week 4 – 8.5.23	Celebrities on social media			
Week 5 – 15.5.23	TV			
Week 6 – 22.5.23	Film			
Half term				
Week 7 – 5.6.23	TV or cinema?	BBC Bitesize: music, TV and cinema https://www.bbc.co.uk/bitesize/guides/zd7dt39/revision/1 Spanish Pop artists https://www.last.fm/tag/spanish+pop/artists	Linguascope: Beginners – el ocio – los instrumentos musicales	How often do you watch films ? Do you prefer to watch films in the cinema or at home and why ? Do you know of any Spanish film writers or musicians ? What films or songs have they written ?
Week 8 – 12.6.23	Music			
Week 9 – 19.6.23	Completion of Week 7/8			
Week 10 – 26.6.23	Revision and Listening assessment			
Week 11 – 3.7.23	WHOLE SCHOOL ASSESSMENT			
Week 12 – 10.7.23	Famous musicians			
Week 13 – 17.7.23	Assessment feedback			