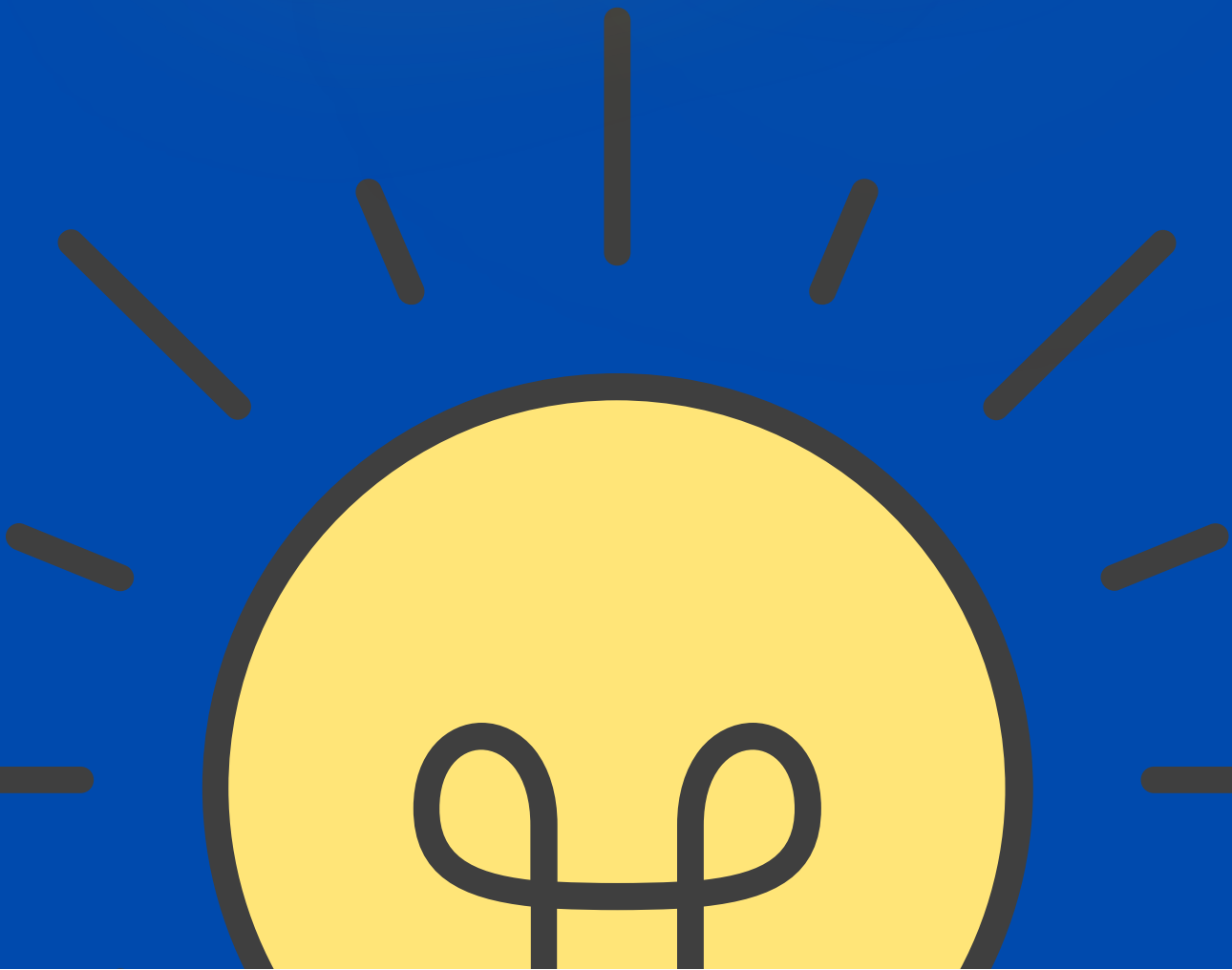


MOON HALL SCHOOL

# Independent Learning Activities

*Year 8*



# Introduction for Parents



At Moon Hall, our approach to home learning has three main strands:



READING



SET HOMEWORK



INDEPENDENT  
LEARNING

This Independent Learning booklet was a new addition to our home learning offer for the academic year 2022-23 and has been specifically designed to:

- Communicate the curriculum for each subject
- Provide consolidation tasks to help pupils revisit, recall and secure knowledge that they have learnt in class
- Provide challenge tasks, which allow pupils to deepen and extend their knowledge beyond the curriculum

Please see the section on Independent Learning for a full explanation.



## Reading

Regular reading is a priority for pupils at Moon Hall and this is a key area where your support as a parent is so valuable.

Our expectation is that pupils will be completing regular reading at home, as per the schedule below. Alongside this, we will be continuing with our successful reading interventions during form time.

Year Groups	Reading Expectation
Years 3 - 6	Daily, with an adult, for a minimum of 10 minutes each day. This should be recorded in their reading journal by an adult at home.
Years 7 - 9	At least 90 minutes each week, split over 3 - 5 sessions. At least 50% (45 minutes) of the total reading time should be with an adult. All reading should be recorded in their reading journal by an adult at home.
Years 10 - 11	Regular independent reading is encouraged

# Introduction for Parents



## Set Homework

At Moon Hall, we recognise the high demands of the school day and the needs of our pupils, whilst balancing the need to set homework where it is beneficial for the purposes of consolidation and/or discovery.

In particular, all of our pupils enjoy a very long school day, and many pupils have long journeys to and from the school itself, which further reduces the amount of time available for homework in the evenings.

Our parent survey revealed the following concerns about homework:

- 82% of pupils required additional support with their homework.
- Two thirds of pupils were not able to complete homework to a good standard.
- 69% of parents cited homework as a cause of upset and tension at home.

Therefore, at Moon Hall, teachers do not set written homework on a particular day or at a specified frequency. Instead, we ask teachers to carefully consider whether a homework task will enhance pupils' learning. When homework is set, it will be set as an assignment on Microsoft Teams.

The following table outlines our carefully considered approach to homework by year group.

Year Groups	Set Homework
Years 3 - 6	Homework is set only when it is beneficial to your child's continued learning and will consist of a short task. This task may take the form of spelling, times tables or typing, for example.
Years 7 - 8	Homework is set only when it is beneficial to your child's continued learning. The homework will generally take less than 30 minutes to complete. The format will vary by subject.
Years 9 - 11	Homework will be set as required where it is beneficial to your child's continued learning. The homework will generally take up to 60 minutes to complete and could take the form of reading, research, revision, written or creative tasks. Project based homework may also be set in some subjects.

# Introduction for Parents



## Independent Learning

This Independent Learning booklet gives pupils access to interesting and engaging learning opportunities, which are linked to the school curriculum.

The activities have been collated by our Heads of Department and their teams and are presented on a termly timeline.

The activities are designed to enhance home learning by providing opportunities for both **consolidation** and **challenge**. The mediums used are not only accessible to our dyslexic pupils, they are interesting, engaging and (often) fun!

Activities include making a medieval stew in History, a "Spring has Sprung" photo competition in Science, making clay pots 'the ancient way' in Art, access to Audiobooks in English, delving into 'CEO Secrets' in Business, diagnostic quizzes in Maths and creating jingles for Music in Chrome Music Lab.

The activities are optional and additional to the school curriculum. They do not need to be handed in to the teacher. However, pupils are encouraged to show their teachers their independent learning and house points will be awarded to those who engage in this element of home learning.

## How to use this booklet

This booklet is specific to the year group and has a page for each subject.

The activities link specifically to what our pupils are studying in class.

It is best to complete the activities after the topic has been studied in class.

To meet our stated aims, there are three sections, which are described in the table below.

What we are learning...	Consolidation	Deepen & Challenge
This section explains what topics you are studying in class during term time	This section gives you activities that you can do to help you revisit, recall and secure knowledge that you have learned in class	This section gives you activities that will deepen and extend your knowledge about this topic.

On the top left of each page is a QR code, which will take you to the online version of the same page. From here, you can click on the hyperlinks that take you to the activity. For example, the QR code on the right will take you to the Year 9 English activities.





# Art - Year 8



## Autumn (Michaelmas) Term

What we are learning...	Consolidation	Deepen & Challenge
Still Life Cubism (Photography and Drawing)	<p><b>What is Cubism?</b> 5 min video clip from Tate, explaining about Cubism. <a href="#">All about Cubism</a></p> <p><b>Create an information leaflet</b> about Cubism, try to include:</p> <ul style="list-style-type: none"> <li>• an image of a Cubist painting,</li> <li>• list 3 key artists,</li> <li>• a brief definition - explaining what Cubism is.</li> </ul>	<p><b>Step 1:</b> Select a group of 3 objects tall, medium and small.</p> <p><b>Step 2:</b> Arrange the objects as a small still life set up</p> <p><b>Step 3:</b> Draw the objects, line only.</p> <p><b>Step 4:</b> Get up and draw your objects from a different viewpoint. Make sure you draw over your original drawing.</p>
Still Life Cubism (Painting & Theory of Colour)	Use this link ' <a href="#">cubism task</a> ' to a worksheet for a <b>drawing task based on Cubism.</b>	<p><b>Creating a final cubist piece</b> <a href="#">How to create a cubist study</a> Use this clip as a starting point.</p>

## Spring (Lent) Term

What we are learning...	Consolidation	Deepen & Challenge
Figurative Sculpture (Proportions)	<p><b>Researching the human figure</b> Use magazines, newspapers and/or the internet to collect pictures of the human figure. Collect enough images to <b>fill an A4 sheet.</b></p>	<p><b>Drawing Task 1:</b> Click on <a href="#">this link</a>, complete the worksheet based on your knowledge of proportions.</p>
Figurative Sculpture (Construction)	<p>Click on <a href="#">this link</a> and complete the worksheet based on the <b>proportions</b> of the Figure.</p> <p>Click on this link <a href="#">this link</a> and complete the research task based on sculptor <b>Alberto Giacometti.</b></p>	<p><b>Drawing Task 2:</b> Complete a sketch of a seated figure. Draw the subject as a stick figure first and add detail later. Remember to draw from a side viewpoint.</p>

## Summer (Trinity) Term

What we are learning...	Consolidation	Deepen & Challenge
Mixed Media Illustration	<p><b>Take a series of 10 photos</b> based on the opening passage from 'Rebecca'. Use <a href="#">this link</a> for details.</p> <p>Create a landscape study using a pen, work with lines and marks only. Click on <a href="#">this link</a> for ideas.</p>	Consider <b>photo-editing</b> one or two of your photographs, click <a href="#">here</a> for examples and ideas.
Mixed Media Illustration	Click on the link below to look at the work of <a href="#">Melissa Zexter</a> , an artist who works over photographs. Then try the task outlined on the sheet.	Click the link; <a href="#">Embroidery Stitches</a> and look at the possible techniques and patterns you can make with thread. Consider trying to copy some of these examples.



# English - Year 8



## Autumn (Michaelmas) Term

What we are learning...	Consolidation	Deepen & Challenge
Class Reader: 'Holes' by Louis Sachar	Do you believe in 'luck'? Write at least 3 paragraphs to explain your answer.	What is 'justice'? How is this theme developed in the story?
Spooky stories	Make a mind map of the generic characteristics of ghost stories under the headings of plot, setting and character.	Research the history of ghost stories.
Imagery and figurative language	<a href="#"><u>Metaphor, Simile, Personification, Hyperbole   Figurative Language Lesson - YouTube</u></a>	Continue the story using personification <a href="https://app.pobble.com/lessons/preview/1e342be5"><u>https://app.pobble.com/lessons/preview/1e342be5</u></a>
Speeches	Make a poster of speech-writing rhetorical techniques.	<a href="#"><u>WE SHALL NEVER SURRENDER</u></a> speech by <a href="#"><u>Winston Churchill (We Shall Fight on the Beaches) - YouTube</u></a> - what techniques can you spot in this speech?
SPaG skills	Read about the different types of sentences and write 5 examples of each: <a href="#"><u>Purpose of sentences - BBC Bitesize</u></a>	Explore sentence grammar further: <a href="#"><u>Sentence structure and types - 3rd level English - BBC Bitesize</u></a>

## Spring (Lent) Term

What we are learning...	Consolidation	Deepen & Challenge
Class Reader: 'Private Peaceful' by Michael Morpurgo	Research reasons why soldiers signed up to fight in WW1. - Research Michael Morpurgo and produce a fact sheet about him.	Design a recruitment poster to encourage men to fight in WW1. Include propaganda and emotive language. - Watch this interview with Michael Morpurgo: <a href="#"><u>Michael Morpurgo: Full Interview #Armistice100 - YouTube</u></a>
War poetry	<a href="#"><u>The Somme - Exploring 'Dulce et Decorum Est' by Wilfred Owen   English Literature - Live Lessons - YouTube</u></a>	<a href="#"><u>How to draft poetry for KS3 English students - BBC Bitesize</u></a>
SPaG skills	Verb tenses:	Write about the experience of first day at school in the



# English - Year 8



	<a href="#">Past, present and future tense - YouTube</a>	present tense. Now convert it to past tense. What difference does it make to the feel of the writing?
Newspaper reports	<a href="#">BBC News - Live Lesson - BBC Teach</a>	<a href="#">Tomorrow's Papers Today - UK Front Pages - Latest Newspaper Headlines</a> ( <a href="http://tomorrowpapers.co.uk">tomorrowpapers.co.uk</a> ) What is the most eye-catching headline? Read the article.

## Summer (Trinity) Term

What we are learning...	Consolidation	Deepen & Challenge
Class Reader: 'The Boy in the Striped Pyjamas' by John Boyne, or 'Free' by David Grant	<a href="#">John Boyne on The Boy in the Striped Pyjamas - YouTube</a>  'Free' - design and write a flier to advertise a production of the play.	
Narrative poetry (animal themed)	Research other animal poems and choose one to present to class.	<a href="#">Deadly Predators from The Hunt   Earth Unplugged - YouTube</a> Choose one of the animals in this clip and write a poem about it.
Discursive writing	Revise connectives - how many can you think of? Can you get at least 15?	<a href="#">Linking words and phrases guide for KS3 English students - BBC Bitesize</a>
SPaG skills	Semi-colons: <a href="#">How to use semicolons - BBC Bitesize</a>	-
Formal letters	Is graffiti art or vandalism? Write a letter to the local newspaper expressing your opinion on this topic.	Is there a local issue that you feel strongly about? Write a formal letter to your local council expressing your opinions.
Science Fiction	<a href="#">Science fiction - Bing images</a> Choose an image and use it as the basis for a piece of descriptive writing.	Read/listen to a classic Sci-Fi story such as 'War of the Worlds' by H.G.Wells



# Geography - Year 8



## Autumn (Michaelmas) Term

What we are learning...	Consolidation	Deepen & Challenge
Tectonic Activity - Volcanoes and Earthquakes: causes, impacts and responses to different tectonic hazards	Watch the movie 'Dante's Peak' (we have the DVD if you need to borrow) Make a list of all the evidence/signs that a volcanic eruption was about to happen Make a model volcano	Investigate the eruption of the Eyjafjallajokull in Iceland and write a newspaper report explaining the impacts it had on a) local people b) the rest of the world
The World's ecosystems, tropical rainforests and deforestation	Surveying Habitat : Grassland - Record different species of plants and animals/insects in a metre square area of grass and write down what you discover.	Create a possible food web from your results

## Spring (Lent) Term

What we are learning...	Consolidation	Deepen & Challenge
Hot Deserts: How life can survive extreme temperatures and rainfall in hot desert areas around the world	Do people go on holiday in hot deserts? Research and plan a 2 day trip to a hot desert you would like to visit	Find out by using the internet what causes 'desertification' - when fertile land turns into a desert. Make a list of suggestions to prevent this from happening
Transport: Transport types, networks in the UK and sustainable transport	Record your different types of transport for one week. Was it sustainable? If not suggest how it could have been improved	Film examples of sustainable transport you can spot during one month

## Summer (Trinity) Term

What we are learning...	Consolidation	Deepen & Challenge
Agriculture and Rural areas of the UK To investigate farming in the UK and identify changes over the past 50 years	<a href="#">Watch the short documentary about a day in the life of a farmer</a> and draw a timeline or make a list of what he does each day	Imagine you are a farmer - research and write about the products that you would grow to make your farm sustainable and encourage young people to work in agriculture
The Water Cycle and Rivers: Drinking dinosaur water & investigating the life and journey of a river	Write a song or rap about the water cycle	Design a flood prevention scheme to stop the River Mole flooding Moon Hall School



# History - Year 8



## Autumn (Michaelmas) Term

What we are learning...
Elizabeth I
Tudor society
Spanish Armada
Renaissance medicine
Gunpowder plot
Visit opportunities

Consolidation
Watch <a href="#">Elizabeth I: From Prison to Palace (Episode 1)</a>
<a href="#">Tudor Crafts</a>
<a href="#">Dan Snow Armada - YouTube</a>
<a href="#">How to Make a Plague Doctor Mask : 9 Steps - Instructables</a>
<a href="#">The Gunpowder Plot</a>
Visit Hampton Court, Hever Castle, or the Mary Rose Museum

Deepen & Challenge
Describe life for Elizabeth when young
Can you create your own Tudor crafts?
Can you build your own armada ship?
What can you find out about plague doctors?
Can you create an image in chalk?
Can you write up your visit and share with the class?

## Spring (Lent) Term

What we are learning...
Empire
Christopher Columbus
Slavery
Visit opportunities

Consolidation
<a href="#">The British Empire - KS3 History - BBC Bitesize</a>
<a href="#">Christopher Columbus food poster</a>
Films to watch- Amazing Grace/ 12 years a slave/ Amistad (ensure you have an adult present)
<a href="#">Bristol and the Transatlantic Slave Trade   Bristol Museums</a>

Deepen & Challenge
Watch the clips and answer the question sheets.
Create your own Columbus menu- what could you cook?
Write a film review/ blog.
Bristol docks

## Summer (Trinity) Term

What we are learning...
Industrial Revolution
Visits
Local history task
Workhouses
Native Americans

Consolidation
<a href="#">Industrial revolution timeline task</a>
<a href="#">Museum of Power - Industrial Revolution</a>
Research the impact of the IR in your area.
Watch 'Oliver'
'Dances with Wolves' 'The New World' (ensure an adult is present)

Deepen & Challenge
Complete the timeline using the key developments cards.
How did technology develop?
Comparison task- A table or images.
How accurate are these films?
Write a film review



# ICT - Year 8



## Autumn (Michaelmas) Term

What we are learning...	Consolidation	Deepen & Challenge
Components of a computer system	Try these quizzes out <a href="#">Quiz 1</a> <a href="#">Quiz 2</a> <a href="#">Quiz 3</a>	Customise your own 'dream' computer using any of the sites below.
Practical tasks - building computers	Try the different versions of the games!	Make a presentation showing the components you would include and explain why you would choose them. <a href="#">Build a PC on the Box Site</a> <a href="#">Build a PC on PC specialist</a>
Matching a computer spec to a user	Watch this YouTube video to learn more about gaming computer components <a href="#">Building a gaming PC</a>	Write out an algorithm (set of instructions) for brushing your teeth. Make sure you write down every single step clearly. How many instructions do you end up with? Can any of them be repeated?
What is an algorithm?	Work through <a href="#">bitesize</a> Use the screen reader built into Edge. Try the test at the end.	Draw out your algorithm for brushing your teeth using the flow chart symbols you learnt at school. Here is a reminder if you need one: <a href="#">Smartdraw</a>
Flowol - flow chart symbols and simple flow charts	<a href="#">Try this quiz</a> Press preview and start to play the quiz and revise flow chart symbols	Look at your algorithm for brushing your teeth. Can any section be repeated? If so, it could be a separate procedure. Write out the procedure and change your flow chart to include it.
Flowol - more advanced flow charts to control simple systems, including procedures	<a href="#">Click here</a> to read page 1 of this Bitesize page:	

## Spring (Lent) Term

Photoshop graphics - difference between bitmaps and vectors	Quizziz bitmap and vector <a href="#">quiz</a>  Wordwall vector bitmap <a href="#">quiz</a> - choose how you play!  <a href="#">Watch this video on how to make pixel art</a>	More in depth bitmap-vector quizzes/game <a href="#">quiz</a>
Photoshop graphics - photography and creating a montage	Scratch - create your own pixel art  Create your own collage montage at home by taking, printing and cutting out photos. How does this compare to using Photoshop?	Find at least 3 examples of Hugo Suissas forced perspective work and consider how he took the photos - was Photoshop used?



# ICT - Year 8



Photoshop graphics - use of filters and effects

On your phone, take photos of a subject (eg a pet) and explore the filter effects in your camera app. What interesting effects can you achieve?

Explore further setting on your phone camera - eg crop, zoom, contrast.

## Summer (Trinity) Term

What we are learning...	Consolidation	Deepen & Challenge
Vector graphics - what is a vector? Nodes and lines	<a href="#">Watch this video</a> on how to use Scratch vector drawing activity	More in depth vector quizzes/game <a href="#">quiz</a>
Designing vector graphics - combining shapes, adjusting nodes - cartoons	<a href="#">Try this free text tool</a> - enter some text and play with the settings to add 3D effects Or	If you have access to a graphics program on an iPad or tablet (or your phone), try creating your own company logo and using filters and effects. Perhaps you could redesign the school logo? <a href="#">Logo Maker</a>
Designing vector graphics - using filters and effects to create 3D effects on logos	Design a poster to warn young people of the dangers of scams, phishing and malware.  If you are unsure of these keywords, make a keyword poster instead - write out each word and underneath, write a simple definition. You might find this site helps you: <a href="#">bite size</a>	Look on a news site such as BBC newsbeat, <a href="#">news report link</a> , and see whether you can find two different articles about scams. Make notes on -who was scammed -how they were caught out -what happened - eg. did they lose money? -what happened to the scammers?
Scams and Hacking	<a href="#">Watch this video</a> on an introduction of HTML  <a href="#">Watch this video</a> which guides you through writing basic HTML programs	Using Notepad in Windows, create a HTML website using this <a href="#">video</a>  Change the content to your liking, to differ from the video tutorial.
HTML Programming		



# Maths - Year 8



## Autumn (Michaelmas) Term

What we are learning...	Consolidation	Deepen & Challenge
Multiplication of fractions and decimals	<p>Revise <a href="#">Improper Fractions</a> by watching this video</p> <p>Practise <a href="#">Multiplying Fractions</a> and check your <a href="#">answers</a> (Watch <a href="#">Multiplying Fractions</a> for a refresher if you need to)</p> <p>Dividing Fractions <a href="#">'Fill in the blanks'</a> grid, then check your <a href="#">answers</a> (Watch <a href="#">Dividing Fractions</a> video for help if needed)</p>	<p>Watch <a href="#">Multiplying &amp; Dividing Mixed Numbers</a></p> <p>Practise multiplying using this <a href="#">'Fill in the blanks'</a> grid, then check your <a href="#">answers</a></p> <p>Practise dividing using <a href="#">this worksheet</a>, and check your <a href="#">answers</a></p> <p>Watch <a href="#">Algebraic Fractions</a> to see where this topic goes next!</p>
Algebraic thinking	<p>Watch <a href="#">Inverse Operations</a> and play the <a href="#">Secret Number game</a> with a parent. It's a good one for long car journeys!</p> <p>Watch <a href="#">Substitution</a></p>	<p>Try <a href="#">Transum's Substitution</a>. What level can you get to?</p> <p>Watch to learn about <a href="#">Graphing Functions</a></p>
Equality and equivalence	<p>Work your way through <a href="#">Transum's collecting like terms</a>. What level can you get to?</p> <p>Watch <a href="#">Collecting Terms</a> for help and more practise</p>	<p>Interactive Puzzle on <a href="#">MathsPad</a></p>
Place value and ordering	<p>Watch <a href="#">Ordering up to 1 billion</a></p>	<p><a href="#">Decode the Joke</a> Codebreaker activity (Watch <a href="#">Standard Form</a> for help if needed)</p>



# Maths - Year 8



## Spring (Lent) Term

What we are learning...	Consolidation	Deepen & Challenge
Fractions, decimals and percentages	Watch <a href="#">Converting Simple Fractions, Decimals &amp; Percentages</a> , practising on <a href="#">this worksheet</a> as you go through the video. Check your answers <a href="#">here</a> .	Watch <a href="#">Converting more complex FDP</a> , practising on <a href="#">this worksheet</a> as you go through the video. Check your answers <a href="#">here</a> .  Explore <a href="#">fractions greater than 1</a> by watching this video
Directed number	Play <a href="#">Connect Three</a> with a friend or parent. If you're finding it hard, watch <a href="#">Add Directed Numbers</a>  <a href="#">One-step Equations</a> worksheet. Answers on page 2.  Watch <a href="#">Solving 2-step Equations</a> , practise using <a href="#">this bar model worksheet</a> and check your answers on pages 3 & 4	Complete the Equations ' <a href="#">crossnumber</a> ' puzzle. Answers on page 2  Watch <a href="#">Algebraic Expressions with Directed Number</a> , practising on <a href="#">this worksheet</a> as you go through the video. Check your answers <a href="#">here</a> .
Construct and measure angles, lines, triangles, pie charts	Watch <a href="#">Recognising Quadrilaterals &amp; Triangles</a> , then ask a parent to test you	Practise <a href="#">drawing pie charts using this worksheet</a> , then check your <a href="#">answers</a> . Watch <a href="#">Drawing Pie Charts</a> if you need help.



# Maths - Year 8



## Summer (Trinity) Term

What we are learning...	Consolidation	Deepen & Challenge
Numbers, LCM, HCF, prime factors	Grab some dice and play 'Gozinto' with a friend or parent  Watch <a href="#">Common Factors</a> and <a href="#">Common Multiples</a>	Watch <a href="#">Prime Factors</a> and <a href="#">Venn Diagrams</a>
Sets and probability	Watch to understand the <a href="#">key language</a> of probability	Play around at the <a href="#">Probability Fair</a> in this online game
Ratio and proportion	Watch <a href="#">Divide in a Ratio</a>	Watch to link ratio to <a href="#">Gradient</a>
Cartesian plane	Watch <a href="#">Coordinates</a> and play <a href="#">Alien Attack</a>	Watch <a href="#">y = mx + c</a> , practise on this worksheet, and check your answers
Data handling	Watch <a href="#">Two-way Tables</a> , practise these <a href="#">GCSE exam questions</a> , and check your <a href="#">answers</a>	-



# Music - Year 8



## Autumn (Michaelmas) Term

What we are learning...	Consolidation	Deepen & Challenge
<p>Ukulele: Developing fundamental uke skills and knowledge of notes and ukulele TAB</p>	<p><a href="#">Ukulele Fundamentals</a>: Follow this video to recap the basics.</p>	<p>Stretch your knowledge of ukulele chord shapes and TAB using this <a href="#">fun uke quiz</a>.</p>
<p>Blue and Jazz: History of Popular Music Styles, contextual perspectives in music and 12-bar blues</p>	<p><a href="#">BBC Bitesize Revision Guide</a>: History of the Blues</p>	<p>Listen carefully to this <a href="#">Freedom Song</a>, by Harriet Tubman. In 250 words, tell me what this song is about and what it teaches us about the lives of black slaves.</p>

## Spring (Lent) Term

What we are learning...	Consolidation	Deepen & Challenge
<p>Video Game Music: Sequencing, layers, and loops. Composing an 8-bit music theme for a game.</p>	<p><a href="#">BBC Bitesize Revision Guide</a>: Composing Music for Video Games</p>	<p>Using <a href="#">BeepBox</a> music creation software, compose your own theme suitable for an 80s style arcade game.</p>
<p>Drumming: Learning to play drum patterns and grooves on a variety of acoustic and electronic drums</p>	<p>Try to listen to a variety of music and focus on the drum section. Tap along to the beat, thinking about the different drum sounds you can hear.</p>	<p>Explore drum sounds, loops and patterns using this online <a href="#">beat maker</a>.</p>

## Summer (Trinity) Term

What we are learning...	Consolidation	Deepen & Challenge
<p>Advertising and Music Promotion: How important is marketing for an artist?</p>	<p><a href="#">BBC Bitesize Revision Guide and Video</a>: Marketing and Promotion in Music</p>	<p>Get creative! Design an album cover either for a rock band called Whirlpool or a Hip Hop artist called Lil Spice.</p>
<p>Radio Jingles</p>	<p><a href="#">Music Editor Recap</a>: Refresh your mind about creating a jingle and check out the rest of the videos on this YouTube account to learn more.</p>	<p>Use the song maker tool on <a href="#">Chrome Music Lab</a> to create a jingle for a podcast about arcade games.</p>



# Science - Year 8



## Autumn (Michaelmas) Term

What we are learning...
Chemical reactions
Interdependence
Voltage, resistance & current
Chemical energy

Consolidation
-
<a href="#">BBC Bitesize</a> Ecosystems & habitats
<a href="#">BBC Bitesize</a> Current & p.d.
<a href="#">BBC Bitesize</a> Exothermic & endothermic reactions

Deepen & Challenge
<a href="#">Lesson on chemical reactions</a>
Use coins and fruit to make a battery. Build it, test it at school with the voltmeter and see if you can get on the Leader Board.

## Spring (Lent) Term

What we are learning...
Digestion
Electromagnets & magnetism
Photosynthesis
The Earth's Structure and resources

Consolidation
<a href="#">Digestion - BBC Bitesize</a>
<a href="#">BBC Bitesize</a>
<a href="#">Bitesize text, videos and quiz on Photosynthesis</a>
<a href="#">Bitesize</a> looking at finite and renewable resources -have a look

Deepen & Challenge
Make a 10 question Kahoot quiz to be used in class.
<a href="#">A booklet on electricity and Magnetism - try 3 or 4 sheets</a>
<a href="#">Visit this FAQ page and use it to make a booklet to help educate people on Climate change</a>
<a href="#">Visit the Earth Science page - pick a classroom activity of interest</a>

## Summer (Trinity) Term

What we are learning...
Pressure
Breathing
Circulation
Respiration

Consolidation
<a href="#">BBC Bitesize</a> Guide & quiz
<a href="#">BBC Bitesize</a> Breathing system <a href="#">BBC Bitesize</a> Breathing mechanism
<a href="#">BBC Bitesize</a> Circulatory system
<a href="#">BBC Bitesize</a> Difference between respiration & breathing

Deepen & Challenge
<a href="#">Gas pressure - BBC Bitesize</a>
Research how emphysema, smoking and asthma each affect the breathing system
<a href="#">Brilliant.org</a> Video presentation
<a href="#">Watch the video</a> and write a paragraph to explain the difference between breathing and respiration