

# **Avonwood Primary School Year 4 Curriculum Map**



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T		UMN	SPRING		SUMMER Summer 2	
Term Big	Autumn 1	Autumn 2	Spring 1 What did the early Islamic civilisation do	Spring 2	Summer 1	Summer 2 Why do people live near earthquake
Question(s)	Where does chocolate come from?	What is life like in Brazil?	for us?	How are humans affecting the planet?	What makes a good hero?	zones?
Key Text	Charlie and the Chocolate Factory By Roald Dahl  ROALD DAHL CHARLIE GROUNT	How to Train your Dragon by Cressida Cowell  CRESSIDA COWELL HOW TO TRAIN YOUR  DRAGON	1001 Arabian Nights  State of the state of t	The Explorer By Katherine Rundell KATHERINE RUNDELL  EXPLORER  X49 10464 distance and 7 - 1 limit A	Friend or Foe By Michael Morpurgo  From the outbor of MAR MOSE  MICHAEL  MORPURGO  FRIEND ** FOE	The Firework Maker's Daughter by Phillip Pullman  PHILIP PULLMAN The Firework Maker's Daughter Shot guide Integrater
Earth Charter Links	Earth Family	Family Interconnected	Past Peace	Life Peace	Interconnected Past	Earth Love
Lavrach			l	I	I	
Launch Event	Summer in a jar	Brazilian Carnival / Ancient Maya day	Creating Islamic Goemetric Tiles	Survival Session with outdoor classroom	Evacuee day	
Finale Event	Brazilian Carnival / Ancient Maya day		Arabic street art workshop	Save the rainforest fundraising event Story share with Year 2		Re-enactment of the firework maker's daughter with dragon craft parade
Visitors and visits		Capoiera dance instructor (TBC)	States of matter fizzy science workshop (TBC)	Outdoor Classroom AFCB	Local visit (History)- museum box and Evacuee	Hooke Court residential Visually impaired cricket workshop
	Charlie and the Chocolate Fcatory by Roald Dahl	How to Train your Dragon by Cressida Cowell	1001 Arabian Nights Science texts – Solids Liquids and Gasses/	The Explorer Katharine Rundell	Friend or Foe by Michael Morpurgo	The Firework Maker's Daughter Iby Phillip Pullman
	Non-fiction texts – Maya Civilisations	Science texts – Digestive system/ Animal teeth	The Water Cycle	Science texts – Sound	Picture books – Tuesday by David Weisner	Geography texts – Earthquakes & Volcanoes
	Poem – Chocolate Cake by Michale Rosen  Song – Oompa Loompa Songs & Poems	Picture book – The Iron Man/ Shaun Tan the lost thing	Non-Fiction – 1001 Early Islamic Inventions  Myths and Legends – Sinbad the Sailor	Picture books – The Great Kapok Tree/ The Vanishing Rainforest	Science / Non-fiction texts – Electricity  Poetry – Rhyming cuplets – Singing supper	Playscripts – Firework Maker's Daughter Play extract
Reading	Picture Book – Silly Billy by Anthony Browne (Maya Worry Dolls)	Non-fiction texts – Brazil/ Rio De Janeiro	Song – A whole new world - Aladdin	(Auto)biography – Stories for boys who dare to be different (David Attenbrough)	Song – Where no one goes from How to Train your Dragon	Poem – Firework Night by Enid Blyton  Song – Firework by Katie Perry
	Science Text – Environmental change – decline in bees.	(Auto)biography — Pele (footballer)		Poem – Tyger – William Blake Land of the ocean noise – Kenning/ List poem		
	Extract – Boy with the chocolate touch – Adaptation of King Midas.	Song – They Don't Care About Us – Michael Jackson. (Rio version)		Song – Lyrics for Jungle Book		
	Poetry Poems Aloud – Joesph Coelho	Writing to Inform  Dragonology: The Complete Book of	Creating Narrative: Traditional Tales Usborne Illustrated Arabian Nights	Non-Fiction – Bloomin Rainforests  Creating Narrative: The Great Kapok Tree – Lynn Cherry	Writing to Entertain: Quick! Let's Get Out of Here - Michael Rosen	Author Study: Ride The Wind; My Butterfly Bouquet; Hummingbird - Nicola Davies
English and Grammar	<ul> <li>Develop positive attitudes and stamina towards writing by creating poetry</li> <li>Make choices about vocabulary that shows an understanding of purpose and audience</li> <li>Discuss language, extending interest in the meaning and origin of words</li> </ul> Instructional Writing: Ice cream sundaes	Organise ideas into paragraphs around a theme in non-fiction writing (e.g. a topic sentence introducing the theme followed by related ideas)     Add specific detail to nouns using precise adjectives, nouns and prepositional phrases     Understand how authors make choices about vocabulary and	<ul> <li>Write stories with creative characters, settings and plots (i.e. not just retelling familiar stories or using familiar characters)</li> <li>Make choices about vocabulary and grammar that shows an understanding of purpose and audience (e.g. clear differences in language used to describe different characters)</li> </ul>	<ul> <li>Organise ideas into paragraphs</li> <li>Add specific detail to nouns using precise adjectives, nouns and prepositional phrases</li> <li>Use fronted adverbials</li> <li>Use inverted commas and the related punctuation rules to indicate direct speech</li> </ul>	<ul> <li>Show an understanding of the differences between Standard English and non-Standard English</li> <li>Use inverted commas and the related punctuation rules to indicate direct speech</li> <li>Make choices about vocabulary, structure and grammar that shows an understanding of purpose and audience</li> </ul>	<ul> <li>Write stories with creative characters, settings and plots (i.e. not just retelling familiar stories or using familiar characters)</li> <li>Organise ideas into paragraphs</li> <li>Make choices about punctuation, vocabulary and grammar that show an understanding of purpose and audience</li> </ul>

	Chop, Sizzle WOW: The Silver Spoon Comic Cookbook – Tara Stevens  - Understand the term 'adverbial', recognising examples of their use  - Use fronted adverbials to give the reader detail (about when, where or how), and to add variety to the start of sentences  - Use commas after fronted adverbials  - Add specific detail to nouns using precise adjectives, nouns and prepositional phrases  Developing description The Building Boy – Ross Montgomery  - Understand the terms 'pronoun' and 'possessive pronoun', recognising examples of their use  - Carefully choose appropriate nouns and pronouns to create cohesion and avoid repetition  - Add specific detail to nouns using precise adjectives, nouns and prepositional phrases  - Use inverted commas with consistent accuracy and the related punctuation rules to indicate direct speech  Lesson 1 – How do suffixes change words?	grammar according to their purpose and audience  Writing Short Stories The Story Shop: Stories for Literacy – Nikki Gamble  - Write stories with creative characters, settings and plots (i.e. not just retelling familiar stories or using familiar characters)  - Make choices about vocabulary and grammar that shows an understanding of purpose and audience (e.g. clear differences in language used to describe different characters)  - Use inverted commas with consistent accuracy and the related punctuation rules to indicate direct speech	- Use inverted commas with consistent accuracy and the related punctuation rules to indicate direct speech  Dual Purpose Writing: David Attenborough Wildlife Voiceovers  Atlas of Animal Adventures – Rachel Williams & Emily Hawkins  - Make choices about vocabulary, structure and grammar that shows an understanding of purpose and audience (e.g. clear differences in language to entertain and language to inform)  - Add specific detail to nouns using precise adjectives, nouns and prepositional phrases  - Show an understanding of some of the differences between Standard English and non-standard English (e.g. by using 'I aint' or 'we was' when writing dialogue)	Persuasion. Poetry Text: There's a 'Rangtan in my Bedroom - James Sellick and Frann Preston-Gannon  - Make choices about vocabulary, structure and grammar that show an understanding of purpose and audience  - Choose appropriate nouns and pronouns to create cohesion and avoid repetition  - Add specific detail to nouns using precise adjectives, nouns and prepositional phrases  - Use apostrophes to mark plural possession	Discussion: This or That? - Pippa Goodheart  - Organise ideas into paragraphs - Show an understanding of the differences between Standard English and non-Standard English - Make choices about vocabulary and grammar that shows an understanding of purpose and audience	Biography: Inventors: Incredible stories of the world's most ingenious inventions – Robert Winston  - Organise ideas into paragraphs - Carefully choose appropriate nouns and pronouns to create cohesion and avoid repetition - Express time, place and cause using conjunctions, adverbs and prepositions
Spelling	Focus – review of Year 3 suffixes  Lesson 2 – Can we make some rules for using prefixes?  Focus – Review of year 3 prefixes  Lesson 3 - Can we spell words from our word list?  Focus - Words from our year ¾ word list  Lesson 4 - Where do apostrophes go?  Focus- missing letters and possessive apostrophes  Lesson 5 - When do we double consonants?  Focus- suffixes (vowel letters)  Lesson 6 - Can you correct your own writing?  Focus- Improving spelling in children's own writing	Focus – sion and -tion endings  Lesson 2 – When do we use the suffix – ssion?  Focus – ssion endings  Lesson 3 – How does the – ation suffix work?  Focus – ation suffix  Lesson 4 – When do we use the -cian ending?  Focus – -cian endings  Lesson 5 – How can we learn to spell new words?  Focus – Accurately spelling words from the year ¾ word list  Lesson 6 – Can you correct your own writing?  Focus – Improving spelling in children's own	challenge? Focus – Reviewing Autumn term spelling  Lesson 2 – How can we remember our spellings? Focus – Reviewing Autumn term spelling  Lesson 3 – Can we spell words from our word list? Focus – Year ¾ word list  Lesson 4 – What are the spelling rules for adjectives? Focus – ous endings  Lesson 5 – Can we spell - ous adjectives correctly? Focus – ous endings  Lesson 6 – Can you correct your own writing? Focus – Improving children's own writing	Focus – /k/ sound spelled 'ch'  Lesson 2 – When is the /s/ sound spelled with a 'c' Focus – /s/ sound spelled with 'c'  Lesson 3 – Can we create a dictionary of words? Focus – ture endings  Lesson 4 – Can we spell – sure and -ture words? Focus – sure and ture endings  Lesson 5 – What is an unstressed vowel? Focus – untressed vowels  Lesson 6 – Can we spell words from our word list? Focus – Words form the year ¾ word list	challenge? Focus – reviewing spring term spelling  Lesson 2 – How can we remember our spelling? Focus – reviewing spring term spelling  Lesson 3 – Can we spell words from our word list? Focus – Words from the year ¾ word list  Lesson 4 – Why are chef and quiche spelled with 'ch'? Focus – /sh/ sounds spelled with 'ch'  Lesson 5 – When do we use -gue endings?  Focus – gue endings  Lesson 6 –Can you correct your own writing? Focus – Improving spelling in children's own writing	end? Focus – que endings  Lesson 2– Which words use 'sc' to make a /s/ sound? Focus – /s/ sound spelled 'sc'  Lesson 3– Which homophone do we need and can I spell it? Focus – homophones and near homophones  Lesson 4 – Do I need too or two? Focus – homophones and near homophones  Lesson 5 – How do prefixes change the meaning of words? Focus – words with the prefixes un-, dis-, miss and re-  Lesson 6– Who will win the spelling challenge? Focus – reviewing words from the year 3 / 4 list
Maths	Place Value (4 weeks)  count in multiples of 6, 7, 9, 25 and 1000  find 1000 more or less than a given number  count backwards through zero to include negative numbers  recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)  order and compare numbers beyond 1000	writing  Measurement Length and Perimeter (1 week)  Convert between different units of measure [for example, kilometre to metre; hour to minute]  measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres  Multiplication & Division (3 Weeks)  Multiply by 10 and 100  Multiply by 10 and 100  Multiply by 1 and 0	Multiplication and Division (3 weeks)  11 and 12 times tables  Multiplying 3 numbers  Factor pairs  Efficient multiplication  Formal written multiplication methods  Multiply 2-digits by 1-digit  Multiply 3-digits by 1-digit  Divide 2-digits by 1-digit  Divide 3-digits by 1-digit  Correspondence problems  Measurement (Area) (1 week)  What is area?	Fractions continued  Decimals ( 4 weeks )  Recognise and write decimal equivalents of any number of tenths or hundredths.  Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths  Solve simple measure and money problems involving fractions and decimals to two decimal places.	Compare numbers with the same number of decimal places up to two decimal places.     Round decimals with one decimal place to the nearest whole number.     Recognise and write decimal equivalents to \$\frac{1}{4} \frac{1}{2} \frac{3}{4}\$     Understand the effect of dividing a one or two digit number by 10 or 100.     Identifying the value of the digits in the answer as ones, tenths and hundredths.	Statistics (2 weeks)  Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.  Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.  Shape (3 weeks)  compare and classify geometric shapes, including quadrilaterals

	identify, represent and estimate numbers using different representations  round any number to the nearest 10, 100 or 1000  solve number and practical problems that involve all of the above and with increasingly large positive numbers  read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value  Addition and Subtraction (3 weeks)  add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate  estimate and use inverse operations to check answers to a calculation  solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.  solve addition and subtraction two-step problems in contexts, deciding which operations and methods to	Divide by 1 and itself Multiply and divide by 6 Multiply and divide by 9 Multiply and divide by 7  Consolidation (1 week)	<ul> <li>Counting squares</li> <li>Making shapes</li> <li>Comparing area</li> <li>Fractions (4 weeks)         <ul> <li>Recognise and show, using diagrams, families of common equivalent fractions.</li> <li>Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</li> <li>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</li> <li>Add and subtract fractions with the same denominator.</li> </ul> </li> </ul>	Convert between different units of measure [for example, kilometre to metre]  Consolidation (1 week)	Money (1 week)  Estimate, compare and calculate different measures, including money in pounds and pence.  Solve simple measure and money problems involving fractions and decimals to two decimal places.  Time (1 Week)  Read, write and convert time between analogue and digital 12-and 24-hour clocks.  Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.	and triangles, based on their properties and sizes  • identify acute and obtuse angles and compare and order angles up to two right angles by size  • identify lines of symmetry in 2-D shapes presented in different orientations  • complete a simple symmetric figure with respect to a specific line of symmetry.  Position and direction  • describe positions on a 2-D grid as coordinates in the first quadrant  • describe movements between positions as translations of a given unit to the left/right and up/down  • plot specified points and draw sides to complete a given polygon.  Consolidation (1 week)
Times Table	use and why.		7 times table	O times table	Consolidation	Residiation Tables shock
Focus	6 times table	8 times table	7 times table 11 times table	9 times table 12 times table	(1,2,3,4,5,6,7,8,9,10,11,12)	Mutliplication Tables check (1,2,3,4,5,6,7,8,9,10,11,12)
	PHILOSOPHY Generalism	THEOLOGY Christianity/Judaism/Islam	PHILOSOPHY Christianity / Islam / Humanism	SOCIAL SCIENCES Islam / Christianity	THEOLOGY Islam	SOCIAL SCIENCES Generalism
RE	What do we mean by truth? Plato's cave. Evidence and scientific reasoning  L1 - What is the difference between knowledge and belief? L2 - Evidence and reasoning L3 - Can truth be different for different people? L4 - Our senses can be tricked! L5 - Plato's analogy of the cave L6 - Is the truth worth dying for?	What does sacrifice mean? Abraham/Ibrahim in sacred text, Eid-ul-Fitr, animal sacrifice, Jesus as Ultimate Sacrifice.  L1 – Ritual sacrifice L2 - Abraham & Isaac L3 - Ibrahim & Ishmael L4 - For the forgiveness of sins L5 - Jesus's ultimate sacrifice L6 - Good Friday  Celebrating differences	How do people think about poverty, justice & self-sacrifice? Meaning of poverty & relative poverty. Meaning of justice. Everyday self-sacrifice.  L1 - What do poverty and justice mean? L2 - What is self-sacrifice? L3 - How do Christians think about poverty and justice? L4 - How do Muslims think about poverty and justice? L5 - How do humanists think about poverty and justice? L6 - How can people have an impact on poverty and justice?	How do people contribute to society? Self-sacrifice in form of charity/ community action.  L1 - What does it mean to make sacrifices as part of society? L2 - How do Islamic teachings encourage Muslims to contributed to society? L3 - How do Islamic Relief and Dr Hany El-Banna contribute to society? L4 - How do Christian teachings encourage Christians to contribute to society? L5 - How did Edith Cavell's Christian faith shape her contribution to society? L6 - How do Muslims and Christians contribute to society in similar and different ways?  Healthy Me	How have events in history shaped Islamic diversity? Succession after Muhammad, conflict, Qur'anic interpretation. Sunni, Shia, Sufi.  L1 - What is unity? L2 - What caused diversity in early Islam? (1) L3 - What caused diversity in early Islam? (2) L4 - What difference does being Sunni or Shia make today? L5 - Where are the women in early Islamic development? L6 - How have people and events in history shaped Islamic diversity?  Relationships	How has religion and belief shaped our local area? International, national & local data. Lived expression in area.  L1 - What skills do Social Scientists need to collect and analyse data? L2 - What can we learn from global religion data? L3 - What does the England & Wales Census data reveal about religion and belief nationally? L4 - What does the regional Census data reveal about our local community? L5&6 - How can we use the skills of social scientists to look for evidence of religion & belief in our local area?  Changing Me
PSHE	I understand rights and responsibilities, rewards and consequences and our learning charter in my class this year.	I can tell you a time when my first impression of someone changed as I got to know them.  I can explain why it is good to accept people for who they are.	I know how to make a new plan and set new goals even if I have been disappointed.  I know what it means to be resilient and to have a positive attitude.	I can recognise when people are putting me under pressure and can explain ways to resist this when I want to.  I can identify feelings of anxiety and fear associated with peer pressure.	I can explain different points of view on an animal rights issue.  I can express my own opinion and feelings on this.	I can identify what I am looking forward to when I am in year 5.  I can reflect on changes I would like to make when I am in year 5 and can describe how to go about this.
PE	Invasion game: Football I can delay and help prevent the other team from scoring when I play in defence. I can dribble, pass, receive and shoot the ball with increasing control. I can explain what happens in my body when I warm up.	Invasion games: Basketball I can delay an opponent and help to prevent the other team from scoring. I can dribble, pass, receive and shoot the ball with increasing control. I can move to space to help my team to keep possession and score goals.	Volleyball I am developing a wider range of skills and I am beginning to use these under some pressure. I can identify when I was successful and what I need to do to improve.	Hockey I can communicate with my team, help them keep possession and score goals when I play in attack. I can dribble, pass, receive and shoot the ball with increasing control.	Athletics track and field I can demonstrate the difference in sprinting and jogging techniques. I can explain what happens in my body when I warm up. I can identify when I was successful and what I need to do to improve.	Striking and fielding: rounders I can bowl a ball with some accuracy, and consistency. I can choose and use simple tactics for different situations. I can explain what happens in my body when I warm up.

I can help my team keep possession and I can provide feedback using key I can use feedback provided to improve I can explain what happens in my body I can jump for distance and height with I can identify when I was successful and score goals when I play in attack. terminology and understand what I when I warm up. balance and control. what I need to do to improve. I can identify when I was successful and need to do to improve. I can use the rules to referee a game. I can help to prevent the other team I can throw with some accuracy and what I need to do to improve. I can use simple tactics to help my team from scoring when I play in defence. I can work co-operatively with others to power to a target area. I can use simple tactics to help my team I can identify when I was successful and I can show determination to improve score or gain possession. manage our game. score or gain possession. I share ideas and work with others to I understand the need for tactics and what I need to do to improve. my personal best. I can show determination to perform at my manage our game. can identify when to use them in I can use simple tactics to help my team best. I understand the rules of the game and I different situations. score or gain possession. I can accurately follow and give instructions. can use them often and honestly. I understand the rules of the game and I Dance I can confidently communicate ideas and can apply them honestly most of the Invasion game: Tag rugby I can choose actions and dynamics to convey listen to others. I can delay and help prevent the other team **Gymnastics** time. Tennis a character or idea. I can identify key symbols on a map and use from scoring when I play in defence. I can copy and remember set choreography. I can explain what happens to my body I understand there are different skills a key to help navigate around a grid. I can explain what happens in my body I can explain what happens to my body when I exercise and how this helps to make for different situations and Lam I can plan and apply strategies to solve when I warm up. when I exercise and how this helps to make me healthy. beginning to use these. problems. I can help my team keep possession and I can identify some muscle groups used in me healthy. when I warm up. I can reflect on when and why I was score tries when I play in attack. I can provide feedback using appropriate gymnastic activities. Yoga successful at solving challenges. I can identify when I was successful and language relating to the lesson. I can plan and perform sequences with a I can describe how yoga makes me feel and I can work collaboratively and effectively what I need to do to improve. partner that include a change of level and I can respond imaginatively to a range of can talk about the benefits of yoga. with a partner and a small group. I can pass and receive the ball with stimuli relating to character and narrative. shape. my own court. I can link poses together to create a yoga increasing control. I can use changes in timing and spacing to I can provide feedback using appropriate I can use simple tactics to help my team develop a dance. language relating to the lesson. I can provide feedback using key I can safely perform balances individually score or gain possession. I can use counts to keep in time with others terminology and understand what I need to and the music. and with a partner. do to improve. I can use simple movement patterns to I can watch, describe and suggest possible I can transition from pose to pose in time structure dance phrases on my own, with a improvements to others' performances and with my breath. partner and in a group. my own. I can work collaboratively and effectively I can show respect for others when working with others. as a group and watching others perform. I demonstrate yoga poses which show clear I show increasing control and balance when moving from one pose to another. **Chemistry: States of Matter** Biology: Living things and their Biology: Food and digestion **Physics: Sound** Physics: Electricity Activity: Investigating the how animals' Activity: Investigating the melting point of Activity: Investigating the pitch and volume Activity: Investigating conductors and environment of sounds using rulers and drums. Activity: Investigating the relationship teeth differ based on their diet chocolate, butter, cheese, soap etc. insulators in a series circuit. between the circumference of a tree and Construct and interpret food Group solids/liquids/gases based Use the idea that sounds are Name a variety of appliances that size of its leaves chains, labelling producer, on their properties. associated with vibrations, and run on mains and/or battery power. Group, classify and identify predator, prey. Describe how a variety of that they require a medium, i.e. a Use simple apparatus to construct animals and plants found locally Name, locate and describe the materials change state when they solid, liquid or gas, to travel and control the flow of electricity in and during field study trips, into functions of the main parts of the are heated or cooled. through, to explain how sounds a series circuit. broad groups practically, using digestive system, i.e. mouth, Describe the water cycle and the are made and heard. Describe how the circuit may be keys or in other ways. tongue, teeth, oesophagus, part played by evaporation and Describe the relationship between affected when changes are made to Explain how environmental stomach, small intestine, large condensation within that process. the pitch of a sound and the changes may have an impact on intestine, in humans. Measuring & Observing features of the object that Name common conductors (such as Identify different types of teeth in living things, e.g. the effects of Make accurate measurements of produced it, and between the metals and water) and insulators Measuring & Observing humans, e.g. molar, canine and pollution, littering or building temperature using a thermometer. volume of a sound, the strength of (such as wood, plastic), and, given Science work. incisor, and describe their the vibrations and the distance information about how an unknown **Recording & Presenting** material behaves in a circuit, classify Measuring & Observing functions. Design and use a table to record from a sound source. Measure circumference of tree and Scientific Attitudes & Planning results; present these in a bar **Recording & Presenting** it as a conductor or insulator. Design and use a table to record length of leaves. Ask scientifically relevant chart. Scientific Attitudes & Planning **Analysing & Evaluating** questions and identify a range of Analysing & Evaluating Ask scientifically relevant questions results. Identify patterns and whether test animals. Produce an oral or written report **Analysing & Evaluating** and identify controlled variables. Identify patterns, similarities and there is a correlation. Recording & Presenting or presentation of the **Analysing & Evaluating** Produce an oral or written report Record and present information in investigation. differences and make predictions Identify patterns and use these to materials of the investigation. an accurate, labelled diagram. about future results. draw conclusions and make Analysing & Evaluating Evaluate the investigation and predictions. Suggest next steps to answer Draw conclusions about an suggest improvements. table animal's teeth and its diet. further scientific questions. Analysing & Evaluating a brief The internet: Evaluating online content to Photo editing: Developing an Repetition in shapes: Exploring repetition

## Computing

decide how honest, accurate, or reliable it

To describe how networks physically connect to other networks

understanding of how digital images can be changed and edited

To explain that digital images can be changed To change the composition of an image Data logging: Using a computer to review and analyse data

To explain that data gathered over time can be used to answer questions To use a digital device to collect data automatically

Audio editing: Producing a podcast, which will include editing their work, adding multiple tracks, and opening and saving the audio files

To identify that sound can be digitally

and loops within programming

To create a program in a text-based

important

language

To identify that accuracy in programming is

I can strike a bowled ball with adapted equipment (e.g. a tennis racket). I can use overarm and underarm throwing and catching skills with increasing accuracy. I can understand the rules of the game

and I can use them often

I can communicate with my teammates to apply simple tactics.

I can explain what happens in my body

I can identify when I was successful and what I need to do to improve. I can return to the ready position to defend

I can sometimes play a continuous game.

I can use a range of basic racket skills.

### **Chemistry: Properties of materials**

Activity: Investigating the physical and chemical properties of different materials

 Name physical properties of different materials

Name chemical properties of different materials

Describe how discoveries of physical properties of materials can lead to changing the components of products e.g. lead in pencils is toxic / asbestos insulation.

Observe the physical properties of materials in the classroom

#### Scientific Attitudes & Planning

• Ask relevant questions about the chemical properties of materials

Demonstrate flexibility of thought and adapt conceptions relating to new evidence with the properties of

#### **Recording & Presenting**

Record properties of materials in a

Suggest alternate materials to fulfil

## Repetition in games: Exploring the concept of repetition in programming using the Scratch environment

To develop the use of count-controlled loops in a different programming environment

	To recognise how networked devices make up the internet To outline how websites can be shared via the World Wide Web (WWW) To describe how content can be added and accessed on the World Wide Web (WWW) To recognise how the content of the WWW is created by people To evaluate the consequences of unreliable content  Hardware: Chromebooks Software:	To describe how images can be changed for different uses To make good choices when selecting different tools To recognise that not all images are real To evaluate how changes can improve an image  Hardware: Chromebooks Software: Pixlr X   Maya Civilisation  How was life similar for the Mayans and Ancient Greeks?  Quest for knowledge  • Mayans were interested in science, and even though the early Islamic civilisation is often credited with inventing 'zero', the Mayans	To explain that a data logger collects 'data points' from sensors over time  To use data collected over a long duration to find information  To identify the data needed to answer questions  To use collected data to answer questions  Hardware: Chromebooks & Easy sense data loggers  Software: Easy Sense  Early Islamic Civilisations  What did the early Islamic civilisation do for us?  Quest for knowledge  Science and knowledge was an important part of the Islamic religion, and Baghdad established the House of Wisdom to translate	To use a digital device to record sound To explain that a digital recording is stored as a file To explain that audio can be changed through editing To show that different types of audio can be combined and played together To evaluate editing choices made  Hardware: Chromebooks Software: Twisted Wave	To explain what 'repeat' means To modify a count-controlled loop to produce a given outcome To decompose a program into parts To create a program that uses count- controlled loops to produce a given outcome  Hardware: Chromebooks Software: Scratch  Local History Unit – Bournemouth in WWII How has Britain's past shaped who we are today? How was our local area affected in World War 2?  Quest for knowledge  • German bombers began targeting	To explain that in programming there are infinite loops and count controlled loops To develop a design that includes two or more loops which run at the same time To modify an infinite loop in a given program To design a project that includes repetition To create a project that includes repetition Hardware: Chromebooks Software: Scratch
History		with inventing 'zero', the Mayans conceived of it independently.  Like the Greeks, Mayans believed in an afterlife and multiple gods that were related to nature (e.g. sun god). Unlike the Greeks, Mayans engaged in human sacrifice, believing that the lifegiving fluid of blood also gave life to their gods.  Community and family  Mayans lived in cities like that of the Greeks, though more Mayans lived in rural villages.  Power, empire and democracy  Mayans believed their rulers communicated with gods and had a divine right to power.  Warfare was important to maintaining power and, unlike the typical Greeks, the city-states fought against each other to keep power.  Similarity & difference  Identify similarities and differences between the experiences in two historical periods.  For example, recognising Greeks and Mayans lived in city-stated, but Greeks tended to be more collaborative (e.g. Olympics) and Mayans favoured warfare.  Interpreting evidence  Consider the author, audience and purpose of a source, and how this may affect its usefulness.  Convert between a year and a century (e.g. 900 in the 10 <sup>th</sup> century).	the House of Wisdom to translate every Greek work of science or medicine.  Notable inventions included algebra, the Hindu-Arabic numerals (numbers we use today), hospitals, geographic maps and medical advancements.  Community and family  Many people lived in cities like Baghdad, that had been carefully designed (like Greek polis), but there were also nomadic groups and rural villages.  The identity and community was defined by Islam, rather than the country of birth.  Power, empire and democracy  Caliphs sought absolute power, and sometimes achieved this through wealth and strong armies, but often local sultans were often richer and therefore more powerful.  Historical significance  Recognise that events are significant because what they can reveal about the past.  In this context, the significance of Islamic scholars translating and maintaining classic works for our understanding history beyond the immediate period.  Interpreting evidence  Consider the author, audience and purpose of a source, and how this may affect its usefulness.  Convert between a year and a century (e.g. 900 in the 10 <sup>th</sup> century).		key cities across Britain.  Bournemouth's buildings were repurposed during the war  Bournemouth was the target of an air raid on 23rd May 1943  Community and family  Southampton 'Taunton Boys' were evacuated to their new families in Bournemouth  Families were torn apart with conscription and evacuation  Power, empire and democracy  Allied and axis forces fought to gain power and land to extend their political empire.  Historical significance  What role did Bournemouth have in WWII?  How Bournemouth hosted military forces from other allied countries, eg. USA and Canada  Interpreting evidence  Consider the author, audience and purpose of a source, and how this may affect its usefulness.	
Geography	A village in Brazil  Location and Place  Identify where Brazil is, it's surrounding countries and major cities.			Rainforests  Location and Place  • Know that rainforests, such as the Amazon Basin of Brazil, are found in the Tropics.		Location and Place  Have knowledge of earthquake prone areas across the world and the damage (effects) that they can bring. Understand how

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	Investigate the key physical	I	Identify the location	on of the	earthquakes are measured on the
	features within it including Iguazu		rainforest biome i		Richter Scale.
	Falls, Amazon River basin, Brazilian		lines of latitude ar		Understand what causes an
	Highlands and Copacabana beach.		Understand the ke	• • • • • • • • • • • • • • • • • • • •	earthquake to occur and that this
	Geographical Scale		characteristics of a		is usually linked to the location of
	<ul> <li>Investigate the climate zones that</li> </ul>		as four layers (em	• • •	plate boundaries. Know that there
	make up Brazil - Equatorial,		understory, canop		are different types of plate
	tropical, highland tropical,		and adaptations o		boundaries.
	subtropical and semi-arid climate -		(lianas, buttress ro	oots and drip	Geographical Scale
	and that they cover a regional and		tips).		Understand that cause and effects
	national scale.		Identify animals a	nd humans that	are at the local and national scale,
	Compare types of settlement such		have adapted to li	ve in this	but response can be at the
	as the Long-house in the rainforest		ecosystem.		international scale. Link cause,
	to favelas in cities.		Have knowledge of	f the types of	effect and response to a county's
	Making Connections		human activity that		level of development and political
	1			it are destroying	
	Understand why settlements are		the rainforests.		arena.
	found in particular locations. They		Geographical Scale		Making Connections
	are situated close to natural		Understand that t	ne biome occurs	How have humans adapted to
	resources such as oceans for		at a global scale a	nd is found in	living in an earthquake zone; what
	trade, minerals for energy and flat		many continents.	t is important at	is the building design and
	land for farming.		all scales including	locally to	technology needed to cope. Does
	Geographical skills		indigenous people		this vary between countries and
	Locate Brazil on a world map using		Making Connections		the level of development.
	an atlas and map and interpret		Understand that t	ao rainforast	Geographical skills
	climate data such as rainfall and		provides a numbe		Locate and map major tectonic
	temperature.		such as timber, th	at is used by	plates and identify earthquake
	Identify patterns and links		humans.		distribution zones in the world.
	<ul> <li>Identify similarities and</li> </ul>		Know that the des	truction caused	<ul> <li>Use photographs to recognise</li> </ul>
	differences between the different		by humans can ha	ve an impact on	effects and responses.
	climate zones; compare		the global climate		Identify patterns and links
	population density and		Geographical skills		Do most earthquakes occur on
	distribution data for Brazil.		Locate on a world	man using an	tectonic plate boundaries.
	Examples and vocabulary		atlas and map.	map asing an	Does most damage and fatalities
	Urban and rural to denote		·	urat alimata data	_
			Analyse and interpretable		occur where population densities
	towns/cities and countryside.		such as rainfall an	d temperature.	are high?
			Fieldwork enquiry		Compare similarities and
			Virtual fieldwork u	sing Google	differences of earthquakes.
			maps.		Examples and vocabulary
			Identify patterns and links		Using case studies of a HIC and LIC
			Link rainforest loc	etion and	countries, compare similarities
			climate to the trop		and differences of the earthquake.
			Examples and vocabulary	near biorne zone.	Use key terms such as magnitude,
				of the colonial and the	I
			Use UK examples		epicentre and focus.
			and physical featu	res.	
		Cooking and Nutrition:	Mechanism	:	Programming/Structures:
		Soups	Pulleys		Mood Lighting
		Food Sources:	Mechanisms:		Structures:
		<ul> <li>Beans and lentils are edible seeds</li> </ul>	A pulley is a simple	e mechanism. It	<ul> <li>Frame and shell structures can be</li> </ul>
		from plants.	is a grooved whee	that spins on	made by folding 2D nets.
		<ul> <li>Seasoning adds to the taste of</li> </ul>	an axle.	·	Programming (if not taught in Computing):
		food. Seasoning can include salt,	A drive belt transf	ers movement	Electronic control systems have
		spices (like pepper), herbs, and	from one pulley to		inputs, outputs and a central
			A cam changes the		-
		sugar.			processer.
		Spices are usually made from the	movement from r	סנמוץ נט	A process flow chart drives a
		seeds, roots, stem or fruits of a	reciprocal.		programmable system.
DT		plant and add flavour to food.	A spring is an ener		Flow charts use key words of 'if',
		<ul> <li>Herbs are usually the leaves of a</li> </ul>	stores energy that	can be	'then', 'stop', 'start', 'repeat' and
		plant and add flavour to food.	transferred to a di	fferent energy	other command words (depending
		Mushrooms are not plants nor	store (link to Y5 So	• •	on software)
		animals. They are a type of fungus.	Pulleys can redire	· · · · · · · · · · · · · · · · · · ·	Programmes can run for a given
		Nutrition & Eating:	reduce the force r		number of loops or a set amount
		Some people are intolerant to			of time, or until something is no
			heavy objects.		_
		certain types of food, like gluten	Structures:		longer true.
		or dairy products. This means their	A shell structure h		A variable is something that be
		bodies cannot digest the foods. It	outer 'shell' and d		changed.
		can cause discomfort.	frame, like an egg	shell or a dome	Shaping:
		Food Safety & Hygiene:	in a building.		

		<ul> <li>Hobs and hand blenders need to be used with care, keeping our fingers away.</li> <li>When blending hot liquids, the blender should be on and/or it is kept well away from the user.</li> <li>Food preparation sources should be wiped down before and after use to stop the tiny living things on the surfaces getting onto food.</li> <li>Food preparation areas should be left clean so that food pests are not attracted.</li> <li>Prepare:         <ul> <li>Chop a range of foods, including mushrooms, carrots, and peppers.</li> <li>Crush garlic.</li> <li>Measure volumes in millilitres and litres using a measuring jug.</li> </ul> </li> <li>Combine &amp; Assemble:         <ul> <li>Use a food processor or hand mixer.</li> </ul> </li> <li>Cook:         <ul> <li>Use a hob to sauté and simmer food, and to boil (vegetables).</li> </ul> </li> <li>Work in the Kitchen:         <ul> <li>Wash up items in the most appropriate order, starting with least dirty, and change washing up water or required.</li> </ul> </li> </ul>		A frame structure is made from separate pieces of material called members that form a frame, like climbing frames or houses.  D&T Shaping the World: Prehistoric Britons, Ancient Egyptians, Ancient Greeks, Ancient Maya, Early Islamic Civilisation used knowledge of mechanisms to make levers and pulleys. (Link to History).  Shaping: Cut modelling wire with pliers and shape wooden dowel with a junior hacksaw.		Score with scissors to get a sharp crease.  Generate Ideas:     Use 'quick draw eights' to generate ideas.  Make, Test, Iterate:     Design process is iterative, and includes generating ideas; evaluating; testing and refining.
	Patterns and pumpkins	water as required.	Tropical Rainforest Watercolour		My favourite things	
Art	Control of Materials:  Collagraphic printmaking is a process in which materials are built up on a plate to be printed from.  Theoretical Yayoi Kusama is a contemporary Japanese artist who makes art today (1950s-today). Her work includes paintings and sculptures.  Disciplinary Annotate my artwork with connections to another artist's work.		Colour:  The appearance of secondary colours can vary according to the amount of each primary colour used.  Control of Materials: Mix colours using watercolour paints in a palette.  Theoretical Henri Rousseau was a French modern artist who produced art around 1750-1780. Henri Matisse was a French modern artist who produced paper cuttings around 1940s-1950s. Abel Rodriguez is a Colombian contemporary artist who grew up in the Amazon rainforest. A viewfinder can be used to identify an interesting section within a composition.		Tone:	
Music	Let's celebrate - Harvest and Christmas Celeb Note Values - Recognition of Musical Notes Musical Vocabulary - Linked to project	ration Songs	Instrument Time! - Learning to play the Let's celebrate - Spring & Easter Celebration Note Values - Recognition of Musical Notes Musical Vocabulary - Linked to project		Summer 1: Raindrop Soundscape - To comporaindrop, The water cycle.  Summer 2: The History of Music and the Orch Listening - Listen to a wide variety of musical questions.	nestra

	Describing me and others	Saying what I and others do	Describing things and people
MFL	Describing me and others  in class in Haiti and in France Key ideas (GRAMMAR)  Essential verb: to be, being – ÊTRE (I am – je suis, you are – tu es, he is – il est, she is – elle est, it is – c'est)  Adjective agreement for masculine/feminine (as complement to verb)  Yes/no questions with raised intonation Key ideas (VOCABULARY)  Simple greetings Range of adjectives Days of the week Saying what I and others have  at home  with friends Key ideas (GRAMMAR)  Essential verb: to have, having – AVOIR (I have – j'ai, you have – tu as, he has – il a, she has – elle a)  Indefinite, singular articles and gender  C'est un/une  Intonation questions with 'quoi?' Key Ideas (VOCABULARY)  Verb avoir  Range of singular masculine and feminine nouns Christmas songs and vocabulary	<ul> <li>French club</li> <li>at home</li> <li>Nice carnival</li> <li>Key ideas (GRAMMAR)</li> <li>Infinitive – regular ER verbs (singular)</li> <li>Definite articles – le, la, l'</li> <li>Possessive adjectives – mon, ma, ton, ta</li> <li>'de' for possession</li> <li>Key ideas (VOCABULARY)</li> <li>Range of regular –ER verbs</li> <li>Family members</li> <li>Range of nouns, adjectives and adverbs</li> <li>Saying what I and others like</li> <li>family and friends</li> <li>travelling</li> <li>Key ideas (GRAMMAR)</li> <li>Essential verb: to like – AIMER, to prefer – PRÉFÉRER</li> <li>Joining ideas together</li> <li>Conjunctions et, mais, aussi</li> <li>Key ideas (VOCABULARY)</li> <li>Range of regular –ER verbs</li> <li>Range of regular masculine and feminine nouns</li> <li>Saying how many and describing things</li> <li>My monster</li> <li>Key ideas (GRAMMAR)</li> <li>Essential verb: there is/are – il y a</li> <li>Plural indefinite article – des</li> <li>Regular plural marking on nouns [-s]</li> <li>Key ideas (VOCABULARY)</li> </ul>	Describing things and people
		Numbers 1-12     Parts of the body  Easter vocabulary	