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| ByersGreenLogoByersGreenLogoCLASS 4 CURRICULUM MAP CYCLE B |
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|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| **Theme**  |  **Why are rainforests important to us?** | **What was the Impact of WW2?** | **Ancient Baghdad** |
| **Class text(s)****English** | Running Wild - **Michael Morpurgo**The Explorer – **Katherine Rundel**The Vanishing Rainforest/Poetry **Ted Hughes** | Letters from the Lighthouse - **Emma Carroll** When Hitler Stole Pink Rabbit **– Judith Kerr**Flanders Fields **– John McCrae /** War poetry | Wonder **– R J Palacio**The Night Bus Hero **– Onjali Q. Rauf****Reflection - Animation** |
| **Descriptive writing with** **changing atmosphere from character perspectives** **Newspaper report** **Non-Chronological Report** **Diary** **Information Books (CC Geography)**  | **Formal Letter** **Adventure story** - **Persuasive speech** –  | **Non-chronological report** **Informal letter**  **Discussion** **Newspaper** **Descriptive writing in 3rd person**  | **Instructions** **Narrative** **with a historical setting** **Poetry**  | **Biography** **Diary / recount** **Discussion** **Narrative with a familiar setting**  |  **Poetry** **Newspaper report** **Narrative** **Non -Chronological Report**  |
| **Maths** | **Place** **Value in increasingly larger numbers****Calculation involving all four operations:****Addition****Subtraction****Multiplication****Division****Understanding the order of operations****Measurement** -**Units of measure and conversions** | **Fractions,****decimals and** **percentages including conversions and calculations**  | **Geometry including the properties of shape and transformations on a coordinate grid****Understanding angles****Statistics** **– reading and interpreting graphs and charts** | **Problems and puzzles linked to number facts****Revision of Fractions** **Calculating ratio and proportion** | **Understanding algebra** **Measurement – area, perimeter and volume** | **Statistics – collecting and interpreting data****Finding averages****Calculation puzzles, problems and investigations** |
| **Science** |  **Living Things and their Habitats**(Classifying Organisms)  -Describe how living things are classified into broad groups (based on characteristics/ similarities/ differences) -Include: Animals Plants Micro-organisms  -Give reasons for classifying plants & animals   |  **Evolution and Inheritance** (Y6) (Evolution and Inheritance)  -Recognise living things have changed over time. -Fossils provide information about millions of years ago. -Recognise living things produce offspring of same kind – but are not identical to parents. -Identify how animals & plants are adapted to suit environment in different ways. -Adaptation may lead to evolution.  | **Electricity** (Y6) (Changing Circuits)  -Associate brightness or volume with number & voltage of cells used in circuit.  -Compare/ give reasons for variations in how components function: Brightness of bulbs/ Loudness of buzzers/ On/off position of switches.  -Use recognised symbols when drawing simple circuit diagrams.  |  **Light** (Y6) (Seeing Light)  -Recognise light appears to travel in straight lines.  -Objects are seen because that give out or reflect light into the eye.  -We see things because light travels to eye from light sources or from light source to object to eyes.  -Explore shadows: same shape as object due to light travelling in straight lines.  |  **Animals including Humans** (Y6) (Healthy Bodies)  -Identify/name main parts of human circulatory system  -Explore function of heart/ blood vessels/ blood.  -Describe how nutrients and water are transported. -recognise the impact of diet, exercise, drugs and lifestyle on the way their body functions   |
| **Computing** | **Purple Mash Unit 6.2 Online safety**  use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concerns about content and contact use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content  **Project Evolve:** Online relationships, reputations and bullying (Year 6 units) [ProjectEVOLVE - Education for a Connected World Resources](https://projectevolve.co.uk/)  ***Key Vocabulary:*** *data analysis, digital footprint, inappropriate, location sharing, password, PEGI rating, phishing, print screen, screen time, secure websites, spoof.*   **Purple Mash Unit 6.1 Online safety**  design, write and debug programs that accomplish specific goals; including controlling or simulating physical systems and solving problems by decomposing them into smaller parts use sequence, selection and repetition in programs; work with variables and various forms of input and output  ***Key Vocabulary:*** *Action, algorithm, concatenation, co-ordinates, debug/ debugging, decomposition, event, execute, flowchart, function, input, launch command, object, output, predict, procedure, properties, repeat, repeat until, selection, sequence, simulation, string, tabs, text, text object, timer, turtle object, variable, x and y properties*   | **Purple Mash Unit 6.3 Spreadsheets**  select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information  ***Key Vocabulary:*** *Advanced mode, budget, chart, columns, count, data, dice tool, expense, format cell, formula, formula bar, formula wizard, move cell tool, percentage, probability, profit, rows, spreadsheet.*  | **Purple Mash Unit 6.4 Blogging**  design, write and debug programs that accomplish specific goals; including controlling or simulating physical systems and solving problems by decomposing them into smaller parts use sequence, selection and repetition in programs; work with variables and various forms of input and output ***Key Vocabulary:*** *Approval, archive, blog, blog post, collaborate, commenting, connections, nodes, Vlog.*  | **Purple Mash Unit 6.5 Text Adventures**  design, write and debug programs that accomplish specific goals  ***Key Vocabulary:*** *Debug/debugging, function, link, QR code, repeat, sprite, text adventure, selection, variables.*  | **Purple Mash Unit 6.6 Networks**  understand computer networks including the internet; how they can provide multiple services, such as the world wide web, and the  opportunities they offer for communication and collaboration  ***Key Vocabulary:*** *Data, DNS (Domain Name Server), ethernet, hosting, hub/switch, internet, IP address, ISP (Internet Service Provider), LAN (Local Area Network), network, router, search engine, WAN (Wide Area Network), web page, web server, website, WLAN: (Wireless Local Area Network), Wi-Fi, World Wide Web*  **Purple Mash Unit 6.7 Quizzing**  select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information ***Key Vocabulary:*** *Audience, audio, case-sensitive, clipart, clone, cloze, copy/paste, database, database record, database field, image, image filter, selfie statistics, undo/redo, preview, quiz.*   | **Purple Mash Unit 6.8 Understanding Binary**  use logical reasoning to explain how some  simple algorithms work and to detect and correct errors in algorithms and programs  ***Key Vocabulary:*** *binary, bit, decimal, denary, digit, game states, integer, microprocessor, nanotechnology, nibble, byte, kilobyte, megabyte, gigabyte and tetrabyte, switch, transistor, variable.*   |
| **Art** |  | [**Exploring Identity**](https://www.accessart.org.uk/identity/)**Discover how artists use layers and juxtaposition to create artwork which explores identity. Make your own layered portrait.**Geography link/ Freida Khalo   |  |  | **Sculpture:** Clay sculptures based on 1101 ‘Tommy’ at Seaham Harbour by **Ray Lonsdale**. | [**Architecture: Dream Big or Small?**](http://www.accessart.org.uk/architectural-design) Explore the responsibilities architects have to design us a better world. Make your own architectural model. Artist link – Zaha Hadid |
| **DT**  | **Structure**: Make a shelter to survive in the rain forest – bush craft activity. |  | **Cooking and nutrition:** Consider how food changed during World War II and the way it was rationed. Make food following WWII recipes. |  |  |  |
| **Geography**  | **Vegetation, biomes, forest types** **Fantastic Forests – Why are they so important? What is deforestation?****What is the impact of climate change on me?** |  **South America: Brazil** **What do places have in common?** **River Study – The Amazon** |  |  |  | **Where do we get our resources and why is trade essesntial?** |
| **Geographical skills and fieldwork** : on going across the year |
| **History** |  |  | **World War I and II** Local history study. Research how WWII affected the North East.**What’s in a name?** What’s in a name? Research local history and war memorials within Durham. | **Why was Baghdad such an important city?**A study of the discoveries and advancements that were made in Ancient Baghdad |  |
| **Spanish** | Phonics studyWhat is the date?**Intercultural understanding:***Dia Nacional de Espana* [12th October]Day of the Dead *[Dia de los Muertos -* Mexico]Day of the Dead *[Dia de los Muertos -* Mexico]Day of the Dead *[Dia de los Muertos -* Mexico] | My Family**Intercultural understanding:**Spanish Christmas traditions [*Navidad]* | Do you have a pet?**Intercultural understanding:**World Book Day | At School**Intercultural understanding:**Spanish Easter traditions [*Semana Santa*] | *Healthy Living***Intercultural understanding:**Ongoing comparisons re Spain / UK | Me in the World**Intercultural understanding:**Spanish lifestyle  |
| **Music** | **Learning Recorder with Durham Music Service** | **Emotions and Musical Styles***How does music connect us with our past?*  | **Exploring Key and Time Signatures**   *How does music improve our world?*  | **Introducing Chords**   *How does music teach us about our community?*  | **Words, Meaning and Expression**   *How does music shape our way of life?*  | **Identifying Important Musical Elements**  *How does music connect us with the environment?*  |
| **PE** | Invasion games  | Dance- linked to our Christmas performance | Net and wall games  | Games - zone roundersGymnastics | Athletics - with a coach | Outdoor and adventurous activities |
| **PSHCE** | Me and my relationships | Valuing differences | Keeping myself safe | Rights and responsibilities | Being my best | Growing and changing |
| **RE** | What can we learn about religious diversity in our area?What can we find out about our local Muslim community? | What do the gospels tell us about the birth of Jesus? | How and why do people care about the environment?  | Why are Good Friday and Easter Sunday the most important days for Christians?  | Why do people use rituals today? | What do we know about Christianity? (exploration through the concepts)  |