### Geography

**North America**

- Understand the significance of the Bering Strait
- Understand climate zones, weather patterns and ocean currents
- Understand the agricultural diversity between the Caribbean and North America.
- Understand the route of the transcontinental railroad in the United States of America.
- Recognise mountainous areas and the extraction of natural resources.
- Understand the difference between metropolitan and cosmopolitan.
- Understand the pattern of population growth and spread.
- Understand how rivers are used for trade and transport.
- Understand the physical features and route of the Colorado River.

**Biomes and Climate Zones**

- Investigate biomes throughout the world
- Know about Tundra, Freshwater, Grassland, Ice, Marine, Savannah, Taiga and Temperate deciduous biomes
- Recognise physical features of biomes
- Understand how biomes are damaged and how to preserve them
- Understand and recognise the factors that affect an ecosystem
- Understand how humans respond to the conditions within a biome

### History

#### The Ancient Mayans

- Geographical location of the Mayan region.
- How the Mayan civilisation developed over time and has impacted on modern day life.
- Importance of Mayan masks.
- Discovery of cocoa and how it is used today.
- Hierarchy of Mayan society.
- Mayan beliefs.

#### The Vikings

- The battle of Lindisfarne and where Vikings originated.
- Viking warrior and their weaponry.
- Viking Shields.
- Everyday life for Vikings.
- Viking Gods.
- Viking chronology of significant events.
- Viking long boats.
- Viking clothing and jewellery.
- How the Viking era came to an end.

#### World War II

- Identify the axis and allies in World War 2.
- What life was like during World War 2: Evacuation, rationing.
- Who was Anne Frank?
- What life was like for soldiers in World War 1 and 2.
- The Blitz.
- Anderson/Morrison Shelters.
- Propaganda.
### Science

**A journey through your body**

- Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels, and blood.
- Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function.
- Describe the ways in which nutrients and water are transported within animals, including humans.

**Working scientifically**

- Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.
- Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.
- Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.
- Use test results to make predictions to set up further comparative and fair tests.
- Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.
- Identifying scientific evidence that has been used to support or refute ideas or arguments.

### Classifying Living things

**KLP:**

- Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals.
- Give reasons for classifying plants and animals based on specific characteristics.

### Evolution and inheritance

**KLP:**

- Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.
- Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.
- Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

### How can you light up your life?

**KLP:**

- Recognise that light appears to travel in straight lines.
- Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.
- Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.
- Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.

### Electricity

**KLP:**

- Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.
- Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches.
- Use recognised symbols when representing a simple circuit in a diagram.
| R.E. (PSHE) | Why is Diwali celebrated by both Hindus and Sikhs?  
KLP:  
- Hindus beliefs about different forms of God.  
- Festival of Diwali.  
- The significance of Rama and Sita.  
- Rangoli Patterns and their importance during Diwali celebrations. | What is prayer and meditation?  
KLP:  
- Importance of prayer for Christians, Jews and Hindus.  
- To examine how people of different faiths worship/pray at home.  
- To learn how important prayer is within a religious community (e.g. a temple/church/synagogue/mosque).  
- The aspects of prayer (forgiveness, adoration, intercession, supplication).  
- The importance of meditation and its origins. | How do different religions celebrate birth, coming of age and marriage?  
KLP:  
- Understand what a marriage is.  
- Compare how different religions celebrate marriage.  
- Jewish bar/bat Mitzvah - importance and celebrations. | What do people believe happens after someone dies?  
KLP:  
- Understand the interpretation of death from the perspective of different religions and beliefs.  
- Jewish bar/bat Mitzvah - importance and celebrations. | How can religious meaning be expressed through art?  
KLP:  
- Islamic patterns and buildings, art and architecture.  
- Christian art  
- e.g. analysing stained glass windows.  
- Buddhists mandalas.  
- How music is used as a form of worship. | What matters most to Christians and Humanists?  
KLP:  
- This investigation enables pupils to learn in depth from Christianity and from Humanism, a non-religious way of life.  
- What is humanism?  
- What does a non-religious way of life mean?  
- What are the similarities and differences between humanism and Christianity. |
| Art & Design | Rangoli Patterns (Diwali Art)  
Gods and Goddesses sketches/watercolours.  
KLP:  
- Choosing and explaining their own style of painting.  
- Using a wide range of techniques within painting such as: brush strokes, foreground, background  
- Understand why they have used a technique. | Landscape art - Mountains and Rivers  
KLP:  
- Using a sketchbook to develop skills and ideas  
- Looking at the work of Georgia O’Keeffe and David Hockney, comparing and contrasting landscape styles and re-creating local landscapes in this style using paint, pastels and collage | Designing and making a Viking shield.  
Viking Gods and Goddesses - watercolours.  
Shakespeare portraits - sketching.  
KLP:  
- Selecting tools to create drawings.  
- Developing the techniques sketching shading and tinting.  
- Justify the materials chosen for collage.  
- Combining pattern, tone and shape.  
- Include technical aspects in their work.  
- Describe what their work is influenced by. | Sketches of WW2 soldiers.  
Propaganda Posters.  
KLP:  
- Selecting tools to create drawings.  
- Developing the techniques sketching shading and tinting.  
- Justify the materials chosen for collage.  
- Combining pattern, tone and shape.  
- Include technical aspects in their work.  
- Describe what their work is influenced by. | Biome illustrations  
KLP:  
- Understand the geographical elements of a biome.  
- Look at shape, colour and texture of elements inside a biome.  
- Identify blocks of colour and how the colour can be made lighter or darker to create shade and light patterns.  
- Create biome illustrations using wax, pastel and pen to be displayed in circular ‘windows’.  
- Sketches responding to ‘Preludes’ by T.S. Eliot  
KLP:  
- Understanding and responding to light and dark.  
- Experimenting with charcoal.  
- Looking at perspective.  
- Using shading to develop depth and movement |
### Design & Technology

- **Design and make a Mayan Mask.**
  - Research the historical factors that link to their design.
  - Consider culture and society in their designs.
  - Justify and evaluate their plan.
  - Adapt plans, tools and materials if required.
  - Use tools and materials precisely to shape clay.

- **Making a healthy sandwich.**
  - Use market research to inform plans.
  - Work within constraints. Follow and refine their plans.
  - Justify and evaluate their plan.
  - Adapt plans, tools and materials if required.
  - Use tools and materials precisely and safely i.e. knives to cut, spread and slice.
  - Taste test and evaluate their final product.

- **Viking Jewellery.**
  - Consider culture and society in their designs.
  - Use tools and materials precisely to shape clay.
  - Adapt plans, tools and materials if required.

- **Designing and making a Viking long boat.**
  - Research the historical factors that link to their design.
  - Follow and refine their plans.
  - Adapt plans, tools and materials if required.
  - Use tools and materials precisely and safely (household materials).

- **Design and make a WW2 Anderson Shelter.**
  - Research the historical factors that link to their design.
  - Follow and refine their plans.
  - Adapt plans, tools and materials if required.
  - Use tools and materials precisely and safely (household materials).
  - Discuss whether it is fit for purpose.

- **Biome Shoebox**
  - Creating miniature biomes using a range of carefully selected materials to represent a chosen biome.
  - Design, plan and improve
  - Review and evaluate, identifying successes and points for improvement

### Music

- **Happy!**
  - Learning in this unit is focused around one song: Happy, a Pop song by Pharrell Williams
  - Games, the dimensions of music (pulse, rhythm, pitch etc), singing and playing instruments are all linked.

- **Classroom Jazz 2**
  - This is a six-week Unit of Work that builds on previous learning.
  - Learning is focused around two tunes and improvising:
    - Bacharach Anorak and Meet The Blues
  - Pulse games.
  - Rhythm games.
  - Pitch Games.
  - Vocal Warm-ups.
  - Learning is focused around one song from Benjamin Britten's Friday Afternoons: A New Year Carol.

- **A New Year Carol**
  - Warm-up games.
  - Option: Flexible Games.
  - Vocal warm ups and start to learn the song.
  - Play instrumental parts:
    - Improvise.
    - Compose.
  - Vocal improvisation within the song.
  - Play your compositions within the song.

- **You’ve Got A Friend**
  - Explore the concept of ‘identity’ – the various elements that shape us.
  - How social and cultural differences influence music.
  - Children try out different ways of making their own music and Me

- **Reflect, Rewind and Replay**
  - This consolidates the learning that has occurred during the year.
  - Revisiting songs and musical activities, a context for the History of Music and the beginnings of the Language of Music.
<table>
<thead>
<tr>
<th>P.E.</th>
<th>Computing</th>
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</table>
| Netball:  
  KLP:  
  - To further develop knowledge of attacking and defending.  
  - To know how to intercept a pass.  
  - To know how to invade as a team.  
  - To communicate effectively with team mates.  
  - To develop sportsmanship  
  Sports Leader Sessions – Led by Chance Camp. This includes:  
  - Small team games  
  - Play leader training  
  - Evaluating activities and perfecting games  
  - Following and setting rules  | Internet communication  
  KLP:  
  - Recognising how the WWW can be used to communicate and be searched to find information.  
 Webpage creation  
  KLP:  
  - Designing and creating webpages, giving consideration to copyright, aesthetics and navigation.  
 Variables in games  
  KLP:  
  - Exploring variables when designing and coding a game.  
 Introduction to spreadsheets  
  KLP:  
  - Answering questions by using spreadsheets to organise and calculate data.  
 3D modelling  
  KLP:  
  - Planning, developing, and evaluating 3D computer models of physical objects.  
 Sensing  
  KLP:  
  - Designing and coding a project that captures inputs from a physical device. |
| Invasion Games - Hockey  
  KLP:  
  - To develop teamwork.  
  - To further develop knowledge of defending.  
  - To dribble a ball with control and fluency using foot or hockey stick.  
  - To further develop knowledge of attacking.  
  - To strike a ball or object towards a target or goal with power and accuracy | |
| Circuit training  
  Invasion Games  
  KLP:  
  - To develop teamwork.  
  - To further develop knowledge of defending.  
  - To dribble a ball with control and fluency using foot or hockey stick.  
  - To further develop knowledge of attacking.  
  - To strike a ball or object towards a target or goal with power and accuracy | |
| World War 2 Dance  
  KLP:  
  - Able to move with a range of dynamics to express different emotions.  
  - Able to execute jitterbug actions.  
  - Able to develop relationships – leading and following.  
  - Able to demonstrate unison as a group.  
  - Able to demonstrate and create shapes representing unity  
  Bleep Test – Running Skills.  
  Sports hall Athletics  
  - | |
| Athletics  
  KLP:  
  - To develop the technique in order to race walk.  
  - Learn to measure & record performance  
  - To train the body to run for a longer duration.  
  - To sustain pace over longer distances.  
  - To choose appropriate techniques for specific events  
  Striking and Fielding  
  KLP to understand:  
  - To field as a collaborative team unit. | |
### English

<table>
<thead>
<tr>
<th>Text</th>
<th>Activity</th>
</tr>
</thead>
</table>
| Skellig | **KLP:**  
- Protagonist study.  
- Explore key themes and setting.  
- Detailed setting description.  
- Balanced argument for and against home schooling.  
- Film adaptation.  
- Poetry  
- Writing in role  
- Diary entry  
- William Blake |
| There's a boy in a girl's bathroom. | **KLP:**  
- Poetry.  
- Protagonist study.  
- Diary from the perspective of a child.  
- Dialogue between characters.  
- Formal education report about the main character.  
- Writing an email in role  
- Drama and hot seating |
| Macbeth | **KLP:**  
- To explore the themes of a Shakespeare tragedy.  
- To explore complex relationships within story.  
- To begin to understand the language of Shakespeare.  
- Setting description of the heaths.  
- Re-enactment of the battle.  
- A detailed description of the battle.  
- Letter from the perspective of the protagonist.  
- Biography of Shakespeare's life.  
- Links to Viking myths and legends. |
| Goodnight Mister Tom | **KLP:**  
- Protagonist thoughts and feelings.  
- Poetry.  
- Newspaper article for the declaration of war.  
- Emotive letter from a soldier's perspective with a focus on flashbacks.  
- Diary entry from Williams perspective – focus on character tone.  
- Film adaptation review  
- Drama/hot seating  
- Drawing characters and settings.  
- Writing in role, letters as Mr Tom.  
- Film review  
- Character analysis |
| Floodland | **KLP:**  
- To engage children with a story with which they will empathise.  
- To explore themes and issues, and develop and sustain ideas through discussion.  
- To develop creative responses to the text through drama, storytelling and artwork.  
- To write in role in order to explore and develop empathy for characters.  
- To write with confidence for real purposes and audiences.  
- Description of Eel's island.  
- Protagonist study.  
- Newspaper report.  
- Letter writing  
- Writing in role  
- Poetry  
- Persuasive speeches  
- Free writing opportunities |

### SPaG

<table>
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<th>Punctuation</th>
<th>Activity</th>
</tr>
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<tbody>
<tr>
<td>Using relative clauses beginning with who, which, where, when, whose, that or with an</td>
<td>Using subjunctive form - recognising vocabulary and structures that is appropriate for formal speech and writing, including subjunctive forms.</td>
</tr>
<tr>
<td>Using a colon to introduce a list Use of semicolons within lists Punctuating bullet points consistently</td>
<td>Recognising vocabulary and structures that is appropriate for formal speech and writing.</td>
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<tr>
<td>Recognising vocabulary and structures that is appropriate for formal speech and writing.</td>
<td>Cohesion Linking ideas across paragraphs using a wider range of cohesive devices.</td>
</tr>
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**Consolidation (Key Stage 2) Coverage of all KS2 Grammar,**

- SENSATIONAL Poems Inspired by the senses by Roger McGough
  - The Magic of the Brain by Jenny Joseph
  - Performance poetry (Vegan Delight by Benjamin Zephaniah)
  - Preludes by TS Elliott
  - Creating poems in the style of a poet
  - Poetic features of simile, metaphor, syllables, onomatopoeia.
  - To read, enjoy and respond to poetry
  - To broaden understanding of writers' use of language
  - To prepare poems to read aloud and perform.
  - To compose poetry.
or powers of 10 for any number.
- Order and compare numbers including integers, decimals and negative numbers.
- Find 0.001, 0.01, 0.1, 1, 10 and powers of 10 more or less than a given number.
- Recall and use addition and subtraction facts for 1 (with decimal numbers to two decimal places).
- Round decimals with three places to the nearest whole number or one of two decimal places.
- Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.

Addition & Subtraction
- Perform mental calculations, including with mixed operations and large numbers and decimals.
- Choose an appropriate strategy to solve a calculation.
- Solve addition and subtraction multi-step problems.
- Express missing number problems algebraically.
- Find pairs of numbers that satisfy an equation with two unknowns.
- Use estimation and inverse to check answers to calculations.
- Add and subtract whole numbers and decimals using column addition and subtraction.
- Solve problems which require answers to be rounded to specified degrees of accuracy.

Multiplication & Division
- Multiply multi-digit numbers up to 4 digits by a two-digit whole number using long multiplication.
- Recall and use equivalences between simple fractions, decimals and percentages.
- Solve problems involving fractions.
- Find simple percentages of amounts.
- Solve problems involving the calculation of percentages.
- Solve problems involving similar shapes where the scale factor is known or can be found.
- Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

Geometry
- Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.

Statistics
- Interpret and construct pie charts and line graphs and use these to solve problems.
- Solve comparison, sum and difference problems algebraically.

Measurement
- Recall and use addition and subtraction multi-step problems.
- Solve problems involving the calculation of percentages.
- Solve problems involving similar shapes where the scale factor is known or can be found.
- Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

Multiplication & Division
- Divide numbers up to 4 digits by a two-digit whole number using long division.
- Multiply multi-digit numbers up to 4 digits by a two-digit whole number using long multiplication.
- Multiply one-digit numbers with up to two decimal places by whole numbers.

order of operations to carry out calculations involving the four operations.

Measurement, Ratio and proportion
- Solve problems involving similar shapes where the scale factor is known or can be found.
- Use, read, write and convert between standard units, converting measurements of length, mass, volume and time.
- Solve problems involving the calculation and conversion of units of measure (including money and time).
- Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.
- Solve problems involving the calculation of percentages.
- Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
- Convert between miles and kilometres.

Geometry
- Draw 2-D shapes using given dimensions and angles.
- Recognise, describe and build simple 3-D shapes, including making nets.
- Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.
- Continue to complete and interpret information in a variety of sorting diagrams and the number line.
- Find 0.001, 0.01, 0.1, 1, 10 and powers of 10 more or less than a given number.
- Round decimals.
- Simplify fractions.
- Compare and order fractions.
- Add and subtract fractions.
- Calculate decimal fraction equivalents.

Addition, Subtraction, Multiplication & Division
- Perform mental calculations, including with mixed operations and large numbers and decimals.
- Add and subtract whole numbers and decimals using formal written methods.
- Solve problems involving addition, subtraction, multiplication and division using formal written methods.
- Use estimation and inverse to check answers to calculations.

Fractions, ratio and proportion
- Multiply simple pairs of proper fractions.
- Divide proper fractions by whole numbers.
- Solve problems involving the calculation of percentages.
- Solve problems involving similar shapes where the scale factor is known or can be found.

Geometry
- Draw 2-D shapes using given dimensions and angles.
- Describe positions on the full coordinate grid (all four quadrants).
- Find 0.001, 0.01, 0.1, 1, 10 and powers of 10 more or less than a given number.
- Round decimals.
- Describe and extend number sequences.

Measures
- Solve problems involving the calculation and conversion of units of measure.
- Use, read, write and convert between standard units.
- Calculate, estimate and compare volume of cubes and cuboids using standard units.
- Multiply one-digit numbers with up to two decimal places by whole numbers.
- Divide numbers up to 4 digits by a two-digit whole number using long division.
- Divide numbers up to 4 digits by a two-digit number using short division, interpreting remainders.
- Use written division methods in cases where the answer has up to two decimal places.
- Perform mental calculations, including with mixed operations and large numbers and decimals.
- Solve problems involving addition, subtraction, multiplication and division.
- Express missing number problems algebraically.

**Geometry**

- Draw 2-D shapes using given dimensions and angles.
- Recognise, describe and build simple 3-D shapes, including making nets.
- Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.
- Continue to complete and interpret information in a variety of sorting diagrams (including those used to sort properties of numbers and shapes).

**Statistics**

- Interpret and construct pie charts and line graphs and use these to solve problems.
- Solve comparison, sum and difference problems using information presented in all types of graph.

**Measures**

- Solve problems involving the calculation and conversion of units of measure (including money and time), using decimal notation up to three decimal places.
- Use, read, write and convert between standard units.
- Calculate and interpret the mean as an average.

**Enrichment**

- Science React Show
- Mayan Workshop
- Mayan Cocoa
- The Great British Sandwich Off
- Remembrance Assembly
- Macbeth Drama Workshop
- Tullie House Outreach Programme
- Christian marriage workshop.
- WWII Trip
- Darwin Workshop
- Water Workshop
- Heritage Trust Visit
- Residential
- Courts Visit

**Algebra & Sequences**

- Describe and extend number sequences including those with multiplication and division steps, inconsistent steps, alternating steps and those where the step size is a decimal.
- Use simple formulae.
- Generate and describe linear number sequences.

**Geometry**

- Draw 2-D shapes using given dimensions and angles.
- Recognise, describe and build simple 3-D shapes, including making nets.
- Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.
- Continue to complete and interpret information in a variety of sorting diagrams.
- Illustrate and name parts of circles, including radius, diameter and circumference vice versa.
- Recognise angles where they meet at a point, are vertically opposite, and find missing angles.
- Recognise that shapes with the same areas can have different perimeters and vice versa.
- Recognise when it is possible to use the formulae for area and volume of shapes.
- Calculate the area of parallelograms and triangles.
- Calculate, estimate and compare volume of cubes and cuboids.

- Solve problems algebraically.
- Solve problems involving number sequences.
- Express missing number problems algebraically.
- Perform mental calculations, including with mixed operations and large numbers and decimals.
- Solve problems involving addition, subtraction, multiplication and division.
- Express missing number problems algebraically.

- Draw 2-D shapes using given dimensions and angles.
- Recognise, describe and build simple 3-D shapes, including making nets.
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