Spring 1 Topic 2022
Benin

HISTORY/GEOGRAPHY

- To be able to locate the world's countries, using maps.
- To find out how the kingdom of Benin developed.
- To develop a chronologically secure knowledge and understanding of world history.
- To describe what the people of Benin believed in.
- To find out how Benin's past is recorded through a range of sources.
- To can find out about the story of how Eweka came to be the Oba of the Benin Kingdom.
- To examine and evaluate different sources of evidence about Benin and say what they can teach us about Benin culture.
- To explain how and why the kingdom of Benin became powerful and successful and also how and why the empire came to an end.
- To note connections, contrasts and trends over time and develop the appropriate use of historical terms.

ART/DT

- To investigate free standing structures.
- To apply my understanding of structures.
- To use a wider range of tools and equipment to perform practical tasks accurately.
- To develop a range of practical skills to create bends in a marble run.
- To investigate and analyse a range of existing products in the context of investigating commercially bought marble runs.
- To select from and use a wider range of materials and components according to their functional properties and aesthetic qualities in the context of selecting and using materials and components to make a marble run.
- To evaluate their ideas against their own design criteria and consider the views of others to improve their work in the context of evaluating their marble run.

MUSIC

- To perform, listen to, review and evaluate music across a range of historical periods, genres, styles and traditions, including the works of the great composers and musicians.
- To improvise and compose music for a range of purposes.

COMPUTING

- To enter data and formulae into a spreadsheet.
- To order and present data based on calculations.
- To add, edit and calculate data.
- To use a spreadsheet to solve problems.
- To plan and calculate a spending budget.
- To design a spreadsheet for a specific purpose.

RE

- Justice and Conflict.
- To examine the concept of freedom and justice.
- To compare concepts of justice.
- To describe the influence of religious and non-religious world views on the human rights movement.
- To examine the concepts of freedom and justice and how they might conflict.

SCIENCE

- To explain that unsupported objects fall towards the Earth because of the force of gravity.
- To explore the effect gravity has on objects and how gravity was discovered.
- To investigate the effects of air resistance.
- To explore the effects of water resistance.
- To investigate the effects of friction.
- To explore and design mechanisms.

PSHCE

- To recognise their own strengths and skills and understand how they are perceived by others.
- To recognise influences on their decision making, including the media.
- To be able to evaluate a group work task, learning from their mistakes and suggesting changes to make in the future.
- To be able to give and receive positive and constructive feedback which can be applied to future learning.

FRENCH

- To ask and answer questions about drink choices.
- To interpret a chart written in French.
- To write a sentence to express my choices.
- To write sentences expressing my preferences.
- To use adjectives to describe nouns.
- To use the correct French form for 'some'.

ENGLISH – to include...

- Listen and respond appropriately to adults and their peers
- Ask relevant questions to extend their understanding and knowledge
- Give well-structured descriptions, explanations and narratives for different purposes, including for expressing feelings
- Maintain attention and participate actively in collaborative conversations, staying on topic and initiating and responding to comments
- Continue to read and discuss an increasingly wide range of fiction, poetry, plays, non-fiction and reference books or textbooks
- Identify and discuss themes and conventions in and across a wide range of writing
- Make comparisons within and across books
- Draw inferences such as inferring characters' feelings, thoughts and motives from their actions, and justifying inferences with evidence
- Predict what might happen from details stated and implied
- Summarise the main ideas drawn from more than one paragraph, identifying key details that support the main ideas
- Provide reasoned justifications for their views
- Spell some words with 'silent' letters [for example, knight, psalm, solemn]
- Participate in discussions, presentations, performances, role play, improvisations and debates
- Consider and evaluate different viewpoints, attending to and building on the contributions of others
- Summarise the main ideas drawn from more than one paragraph, identifying key details that support the main ideas
- Identify how language, structure and presentation contribute to meaning
- Discuss and evaluate how authors use language, including figurative language, considering the impact on the reader
- Select appropriate grammar and vocabulary, understanding how such choices can change and enhance meaning
- Give well-structured descriptions, explanations and narratives for different purposes, including for expressing feelings
- Discuss and evaluate how authors use language, including figurative language, considering the impact on the reader

MATHS (Spring 1)

- Understand place value in 6-digit numbers by creating 6-digit numbers, placing them on a number line and solving place value additions and subtractions
- Order and compare 6-digit numbers and say a number between
- Understand the effect of multiplying or dividing a given number by 10, 100 or 1000; answers < 100000 and with not more than 2 decimal places
- Multiply and divide numbers by 10 and 100 to give 1- or 2-place decimal answers
- Use place value to add and subtract 0•1 and 0•01 to and from decimal numbers
- Round 1- and 2-place decimals up and down to the nearest whole number
- Round 2-place decimals up or down to the nearest tenth
- Use mathematical reasoning to explain findings, patterns and relationships
- Use mental strategies to add 2-digit, 3-digit and 4-digit numbers
- Add any pair of 1-place decimals
- Work out what number to add to a 2-place decimal to make the next whole number
- Understand addition and subtraction as inverses of each other and use this to find relationships
- Use counting up to subtract 4-digit numbers from near multiples of 1000
- Subtract 4-digit from 4-digit multiples of 1000 by counting up
- Solve addition and subtraction multi-step problems, deciding which operations and methods to use and why
- Use expanded or compact decomposition to subtract numbers with up to 4-digits (harder)
- Apply divisibility tests for 2, 3, 4, 5, 6, 9, 10 and 25
- Identify factors and multiples, and begin to find common factors
- Use mental strategies to solve multiplications including multiplying by 0 and 1, dividing by 1, multiplying together three numbers
- Use mental strategies to solve divisions including dividing by 1
- Use efficient mental division strategies to divide large numbers
- Identify all the prime numbers less than 100 using Eratosthenes sieve
- Identify square numbers up to 100, understand concept of a square root, relate square roots to square numbers
- Identify patterns, devise and test rules and use them to make predictions
- Devise a rule to work out missing angles
- Recognise that an equilateral triangle is a regular polygon with angles of 60°
- Compare and classify triangles, according to their properties
- Read relevant scales to the nearest numbered unit
- Measure, compare, add and subtract weights (masses) using kg/g
- Convert between different units of measure, e.g. kilometres to metres, metres to centimetres, etc.
- Recognise and estimate volume and capacity using ccs and ml
- Interpret and present continuous data using line graphs
- Use column addition to add pairs of 2-place decimals, including amounts of money
- *Use counting up on a number line to subtract 2-place decimals from 2-place decimals*
- PRA.57 Check that all solutions have been found
- PRA.68 Solve problems involving addition, subtraction, multiplication and division and a combination of these
- MEA.71 Solve problems involving addition and subtraction of measures using decimal notation

MATHS (Spring 2)

- Use the grid method to multiply 2-digit by 2-digit numbers
- Use short division to divide 3-digit by 1-digit numbers with no remainders
- Understand when it is appropriate to round up or down after division
- Use short division to divide 3-digit by 1-digit numbers with integer remainders
- Use short division to divide 3-digit by 1-digit numbers with no remainders
- Use short multiplication to multiply 3-digit numbers by 1-digit numbers
- Use short multiplication to multiply 4-digit numbers by 1-digit numbers
- Understand fractions as operators and relate this to division; find non-unit fractions of large numbers
- Understand that 2D shapes with straight sides are polygons and so identify polygons
- Identify parallel and perpendicular lines in 2D shapes
- Compare and classify acute and obtuse angles; order angles up to 180°
- Compare angles up to 360°, including reflex angles
- Compare and classify quadrilaterals according to their properties
- Recognise that angles on a straight line total 180° and angles round a point total 360°
- Distinguish between regular and irregular polygons based on reasoning about equal sides and angles
- Use mathematical reasoning to explain findings, patterns and relationships
- Choose and use appropriate standard units to measure lengths and heights in any direction
- Choose and use appropriate standard units to measure weights (mass)
- Choose and use appropriate standard units to measure capacities
- Understand and use basic equivalences between metric and imperial units; express these in approximate terms
- Count in fractions, including equivalents
- Place mixed fractions on a number line to compare fractions with the same denominator
- Convert mixed numbers to improper fractions and vice versa
- Multiply fractions by whole numbers
- Identify patterns, devise and test rules and use them to make predictions
- Use expanded or compact decomposition to subtract numbers with up to 4-digits (easier)
- Use expanded or compact decomposition to subtract numbers with up to 4-digits (harder)
- Use column addition to add several numbers with up to 4-digits with answers > 10000
- Use column addition to add several numbers with up to 4-digits
- Identify patterns, devise and test rules and use them to make predictions