

Science

Unit Title—Properties of Materials

Scientist Focus—Spencer Silver, Leo Baekeland, John McAdam, Ruth Benerito, Harry Brearly

Key Knowledge—that changes can be reversible or irreversible, that some materials are thermal conductors, that some materials are electrical conductors, that some materials are better electrical conductors than others, that some materials will dissolve and how this happens, that materials can be classified by their properties,

Key Vocabulary—material, dissolve, insoluble, conductor, suspension, chemical, irreversible, reversible, physical, solution, separate, mixture, translucent, transparent, flexible, permeable, soluble, magnetic, property, liquid, solid, gas, filter, thermal, electrical

Key Skills Developed—make and explain predictions, compare conclusions to predictions, identify controlled, dependent and independent variables, make and record accurate observations, interpret results in a variety of graphs and charts

History/Geography

Unit Title—Amazing Americas

Key Knowledge—that America is a two continents, North and South; that the two main languages on the continent are English and Spanish; that there are a variety of climates in America and what those climates are; the names and locations of principal rivers in North America; the variety in physical geography in North America and the names and locations of oceans, mountain ranges, deserts and other physical features; the position of the major cities of North America; the key features of Chicago

Key Vocabulary—continent, equator, language, population, trade, economy, river, mountain range, Washington DC, Chicago, Appalachians, Rockies, Mississippi, desert,

Key Skills Developed—locate places on a world map; suggest their own questions for investigation, analyse evidence and grow conclusions, identify significant locations and environments, use atlases to find physical features, use primary and secondary sources of evidence

Art/Design Technology

Unit Title—American Patchwork Quilts

Artist Focus—Robin Cowley; The Aids Memorial Quilt

Key Knowledge—that early American colonial and pioneer women developed the art of quilting and patchwork, that quilting and patchwork uses materials from old clothes etc, that quilts and patchwork can tell a story, that the Aids Memorial Quilt was created to remember those who lost their lives to the disease

Key Vocabulary—textiles, applique, quilting, patchwork, stencil, running stitch, cross stitch, blanket stitch, needle, thread

Key Skills Developed— use of applique to create a design on fabric, creating a design for a purpose, joining materials using a variety of stitches, making choices about techniques to use (eg stencilling, applique) and giving reasons for choices, evaluating work

Outcome—square of a quilt for a memory –linked to Aids Memorial Quilt

PE

Key Skills—group gymnastics, working together

Key Vocabulary—balance, sequence, body shape,

Music—Charanga Unit

Fresh Prince of Bel Air—Hip Hop

French—Catherine Cheater

Term and Focus—Autumn 1

The Lions of Little Rock—Kristin Levine

Christian Value—Endurance

PSCHE Focus—Mental Health and Well-Being

Cross-Curricular Maths

Science—presentation of results

Geography—presenting climate information,

Cross-Curricular Writing

RE—Diary of a pilgrim

Geography—Non Chronological Report on Chicago

Enhancement Ops

Harvest Festival

Visitor in to talk about growing up African American in the Deep South

English

Key Texts-The Lions of Little Rock

Grammatical knowledge developed-punctuation within clauses (semi-colons, colons, dashes); passive voice; punctuation of speech

Spelling rules—synonyms; changing –ant words into –ance/ancy words; ce/cy and se/sy words; changing –ent words into –ence/ency words; join a prefix to a root work with a hyphen; join compound adjectives

Key genres-diary; narrative; eye-witness account;

Key vocabulary—character; narrative; dialogue; informal and formal language; colon; dash; passive voice; active voice; inverted commas; semi-colon; first, second, third person

Maths

Focus—Place Value; Addition, Subtraction, Multiplication and Division

Key Knowledge—read write and compare numbers to 10,000,000 and determine the value of digit; round any whole number to a required degree of accuracy; use negative numbers in context and calculate intervals across zero; use the formal method of multiplication; use the formal method of long division dividing 4 digits by 2 digits and interpreting remainders as appropriate; perform mental calculations with large numbers; recognise how to do use BODMAS to calculate in the correct order

Key Vocabulary—million, hundred thousand, ten thousand, thousand, hundred, ten, ones, negative, positive, zero, calculate, accuracy, round; accurate; inaccurate; factors; multiples; prime; reason; addition; subtraction; multiplication; division; square numbers; common; cube numbers;

RE

Unit Title—Life as a Journey

Key Questions—Life is a journey. Do you agree? Why?; In what ways can life be compared to a journey? In what ways does having faith give meaning and purpose to the journey of life?; Is choosing to journey through life as a Christian an easy option? Why? Why not?; Is every person's journey the same? Why not?; Why do people go on a pilgrimage?; Does a pilgrimage have to be to a place of worship?

Key Knowledge—some people undertake a pilgrimage as part of living out their faith; the life journey of people in the Bible effects the behaviour, beliefs and life choices of Christianity, being a Christian and following Jesus' teaching has an impact on a person's life; the life journey of Jesus answers questions about what Christians believe; Christians in many countries across the world are persecuted because of their faith

Key Vocabulary—Journey, pilgrimage, rites of passage and Holy Land

Key Skills Developed—reflect on the similarities and differences between pilgrimages made by Christians and people of other faiths; investigate the impact that following Jesus has on lives; synthesise the features of living life as a Christian;

Computing

Unit Title—Scratch Animated Stories

Key Knowledge—that programming has its own languages, that computer programs can need debugging, that timings can be used in programs along with variables, that repetition of commands can be used to create programs

Key Vocabulary— program, algorithm, debug, repetition, animate, animation, repeat, remix, iteration, broadcast, sequence, deconstruct, visible, invisible, transition

Key Skills Developed Use rapid costume changes to give an animation effect. • Add interactive features to a scene. • Program the use of a single button to control background changes. • Control smooth transitions between characters, scenes and audio. Create a sequence of story scenes with added audio. • Structure and sequence the animation of characters in each scene. • Use the repeat command to create animation effect. • Make a character visible or invisible at the correct times.

Science

Unit Title—Living Things and Their Habitats

Scientist Focus—Carl Linnaeus

Key Knowledge—how animals can be classified based on their similarities and differences; that the Linnaean system is widely used to classify all living things; the different levels within this system; that microorganisms can be useful and harmful; to know some uses of microorganisms and some of their dangers; how to describe the different characteristics of microorganisms

Key Vocabulary—classify, classification, compare, domain, Linnaean, kingdom, class, phylum, order, family, genus, species, characteristics, vertebrates, invertebrates, microorganism, organism, flowering, non-flowering

Key Skills Developed—design and carry out an investigation using controlled, independent and dependent variables; explain predictions using prior knowledge; draw conclusions from their investigation; use correct scientific terminology to classify organisms

History/Geography

Unit Title—Leisure and Entertainment in the 20th Century

Key Knowledge—understand how cinema changed over the 20th Century; understand how and why football changed over the 20th century ; how young people’s lives were different in the 1960s compared with today.; understand why Holiday Camps became popular in Britain; understand how important television has been to British people; see how changes in 20th century technology affect our lives today.

Key Vocabulary—primary source; secondary source; footage; decade; century; entertainment; leisure; population; impact

Key Skills Developed—use of source material such as original film footage and photographs; how to describe changes over a period of time; consider ways of checking accuracy of information; how to place historical events into context

Art/Design Technology

Unit Title—Cams and Followers

Artist Focus—NA

Key Knowledge—that there are different mechanisms in mechanical toys; how cams and followers work; how to follow a design brief; ways in which a structure can be made more secure

Key Vocabulary—cam, follower, mechanism, structure, join, strengthen

Key Skills Developed— accurate measuring; use of tools eg saws, Stanley knives; following the investigate, create brief, design, create, evaluate process; using different joins to create a firm structure; creating a functioning toy with working mechanism using a cam and a follower

Outcome—3D model of a animal created with working parts using cams and followers

PE

Key Skills—creating dances, learning steps, choreography, understanding fitness levels

Key Vocabulary—fitness, circuit, heart rate, pulse, repetitions, steps, choreography, sequence

Music—Charanga Unit

Classroom Jazz

French—Catherine Cheater

Term and Focus—Autumn 2

The Goalkeeper’s Revenge and Other Stories—
Bill Naughton

Christian Value—Peace

PSCHE Focus—Good Relationships, Caring
Friendships

Cross-Curricular Maths

Science—presentation of results

DT—accurate measurement; use of 3D modelling

Cross-Curricular Writing

RE—Mary’s Diary

History—Historical Report on entertainment in 20th Century

Science—Field Guide for local habitat

Enhancement Ops

Nativity

Dogs’ Trust Workshop

Food Bank Project—collecting toiletries and Christmas items for Porch Boxes

Anti-Bullying Week

English

Key Texts-The Goalkeeper’s Revenge and Other Stories

Grammatical knowledge developed—word classes—relative clauses; past and present tenses including progressive and perfect forms; subjunctive mood

Spelling rules—words ending in –able; common word families; words ending in –ably; prefixes mini and micro

Key genres-diary; narrative; newspaper report; obituary; letter

Key vocabulary—character; slang; formal; language; direct speech; inverted commas; dialect; relative pronoun, relative clause; subjunctive; mood; past participle; progressive; simple; perfect; regular verb; irregular verb

Maths

Focus—Fractions; Geometry—position and direction

Key Knowledge—simplifying fractions and finding equivalents; placing fractions on a number line; comparing and ordering fractions by denominator and numerator; adding fractions (including improper fractions and mixed numbers); subtracting fractions (including improper fractions and mixed numbers); multiplying fractions by whole numbers; multiplying fractions by fractions; dividing fractions by whole numbers; finding fractions of an amount; finding the whole from a fraction of an amount; describe positions on the full coordinate grid (all four quadrants); draw and translate simple shapes on the coordinate plane, and reflect them in the axes.

Key Vocabulary—fraction, denominator, numerator, mixed number, improper fraction, simplify, multiple, lowest common multiple (LCM), factors, highest common factors (HCF), simplify, equivalent, multiply, divide, coordinate, x axis, y axis, quadrant, translate, reflect

RE

Unit Title—How do Christians prepare for Christmas?

Key Questions—What is Advent? When is Advent? Why is Advent a time of preparation? What is being prepared for during Advent? What has this unit taught you about what it means to be a Christian? What has this unit taught you about Christian beliefs? Have you learnt anything about yourself from this unit?

Key Knowledge—Advent is a time when the church focusses prayer on the second coming of Christ; different denominations within Christianity hold differing beliefs about the importance and status of Mary; the themes of Advent tell the ‘big story’ of God’s salvation plan; Christians believe that Jesus is the promised Messiah, but Jewish people do not.

Key Vocabulary—Advent, prophet, prophesy, John the Baptist, Messiah, annunciation, incarnation, Mary

Key Skills Developed—describe the symbolism, practices, beliefs and themes of the season of Advent; explain the ways in which Jesus fulfilled the Old Testament Prophecies; express and explain their hopes and dreams for the future; use religious vocabulary to show they understand the themes of Advent; express their opinion about what they think the message of John the Baptist would be today.

Computing

Unit Title—Spreadsheets

Key Knowledge—that spreadsheets have a variety of uses and purposes; that spreadsheets can be used to perform a number of calculations; that charts and graphs can be produced in spreadsheets; that data can be stored in spreadsheets

Key Vocabulary— cell, formula, calculate, format, insert, function, row, column, worksheet, workbook

Key Skills Developed—input text and numbers, write simple formulae, use copy and paste functions for repeated calculations, calculate averages, prepare a budget, format number cells, insert chart, insert graph

Science

Unit Title—Electricity

Scientist Focus—Thomas Edison, Nikola Tesla

Key Knowledge—explain the importance of major discoveries in electricity; understand how changing voltage effects a circuit; link this to the brightness of a bulb or loudness of a buzzer; understand variations in how components function; understand the importance of careful and accurate data collection; use results of a prior investigation to increase the accuracy of a further test

Key Vocabulary—electricity, electric current, alternating current, direct current, battery, cell, bulb, wire, switch, motor, buzzer, circuit, voltage, brightness, loudness,

Key Skills Developed— record and analyse observations including data of increasing complexity; explaining variations in results; plan an investigation using independent, dependent and controlled variables; reporting and presenting findings from enquiries, including conclusions and explanations of degrees of trust, in a variety of oral and written forms

History/Geography

Unit Title (Geography)—Rivers

Key Knowledge—explain the water cycle, know the location of key rivers in the UK, know the location of key rivers of the world, know and label the key features of a river system, understand some of the key ways that rivers are used by humans, understand the reason for damming rivers and the impact that this has

Key Vocabulary—source, mouth, tributary, reservoir, pollution, hydroelectric power, estuary, valley, dam, waterfall, rapids, gorge, meander, confluence, floodplain, levee, delta, leisure, industry, conservation

Key Skills Developed—use atlases and maps to locate rivers including using four and six figure grid references, comparing different geographical features, use maps and photographs to identify different geographical features, identify and explain the impact that human populations have on the physical geography around them, explain how use of physical features can change over time and give reasons for this

Art/Design Technology

Unit Title—Landscapes

Artist Focus—David Hockney

Key Knowledge—Hockney is a significant living British artist; he uses colour and realistic sketching in his work; he has used a variety of techniques throughout his career including acrylic paint, photographic collage and drawing on iPads; he is well known for his landscape paintings, portraiture and his swimming pool paintings; the use of bright, vibrant colour is a key feature of Hockney's work

Key Vocabulary—sketch, recreate, landscape, realism, colour, acrylic, critique, collage

Key Skills Developed— sketching, use of colour, use of technology in art (eg using own photographs to create photographic collage), colour mixing, use of paint, using a colour wheel, planning and preparing a larger piece of work

Outcome—Creation of own landscape picture using techniques from the oeuvre of Hockney making personal choices as to the techniques used

PE

Key Skills—gymnastics, creating solo routines using apparatus and balances: volleyball, hand-eye coordination, understanding rules, collaboration and team work

Key Vocabulary—balance, points, sequence, transition, net, spike, jump, pass

Music—Charanga Unit

New Year's Carol

French—Catherine Cheater

Term and Focus—Spring 1

Macbeth—William Shakespeare

Christian Value—Trust

PSCHE Focus—Families/People Who Care/
Online Friends

Cross-Curricular Maths

Science—presentation of results

Geography—use of coordinates in map work

Cross-Curricular Writing

RE—Letter of recommendation for Moses, Miriam's diary

Geography—Balanced argument on river usage

Science—Write up of investigations

Enhancement Ops

Diversity Week

Hate Crime Awareness

Visit from Chinese Students

SATS Workshop

English

Key Texts—Macbeth— William Shakespeare

Grammatical knowledge developed—using colons and semi-colons within a list; recognising and using the passive voice; recognising formal and informal language; using and recognising the subjunctive in formal writing

Spelling rules—adding suffixes beginning with vowels to words ending in -fer; ie or ei; word families based on common words; statutory spelling challenging words

Key genres—diary; narrative; newspaper report; poetry; debate

Key vocabulary—playscript, simile, metaphor, imagery, personification, characterisation, alliteration, poetic device, rhyming couplet, dialogue, stage directions, interpretation

Maths

Focus—Decimals, percentages, algebra

Key Knowledge—understanding value of digits after the decimal place; multiplying and dividing by 10, 100 and 1000; dividing decimals by integers; understanding the link between decimals and fractions; converting fractions to decimals; converting fractions to percentages; recognising equivalent fractions, decimals and percentages; ordering a combination of fractions, decimals and percentages; finding a percentage of an amount; finding a whole from a percentage or a percentage from a whole; finding a rule; how to form an expression; substitute into simple expressions to find a value; substitute into familiar formulae (eg area and volume); use algebraic notation; solve one step equations; solve two step equations; find pairs of values

Key Vocabulary—digit, multiply, divide, value, fraction, decimal, integer, tenths, hundredths, thousandths, place value, decimal place, place value holder, percentage, equivalent, amount, convert, ascending, descending, quantity, formula, function machine, equation, input, output, one-step/two-step function, rule, expression, algebraic, variable, represent

RE

Unit Title—Why is the Exodus such a significant event in Jewish and Christian history?

Key Questions—Why did God choose Moses? Why is the Exodus such a significant event in Jewish and Christian history? What is freedom? Why is freedom important? What does it mean to be free? Why is it important to remember?

Key Knowledge—that the Exodus is a significant event in Jewish and Christian history; that the Seder is a special meal celebrated by Jews on the first evening of the festival of Passover, that Christianity is rooted Judaism and Jesus celebrated the Passover, that for Jewish people the events of the Exodus and Passover are very important, that Christians remember the Passover and the Last Supper during the Eucharist

Key Vocabulary—Moses, Exodus, Israel, freedom, slavery, Seder, Passover

Key Skills Developed—retell bible stories highlighting connections to their own and other cultures and faiths, make links between events of the OT and NT and worship, understand what freedom is and how this links to Passover, explain why events of the OT and NT are not forgotten, understand the differing ways that different faiths remember and celebrate events from the OT

Computing

Unit Title—Kodu

Key Knowledge—explain how simple algorithms work; that algorithms can be debugged to solve problems; that errors need to be detected to be solved; that code can be analysed and deconstructed; how to use Kodu to create worlds and program characters

Key Vocabulary— world, smooth and flatten, raise, Kodu, start, finish, program, environment, acceleration, bump, obstacle, object, track, path, node, character, tool palette

Key Skills Developed—use a programming tool to create their own game; understand how different programs use different language; how to debug and analyse code

Science

Unit Title—Light

Scientist Focus—Isaac Newton

Key Knowledge—that light travels in straight lines, that objects are seen because they give out or reflect light, light travels from light sources to our eyes or from light sources to objects and then our eyes,

Key Vocabulary—shadow, light, filter, colour, reflect, absorb, refract, spectrum, wavelength, prism, visible, lens, angle, incidence, straight, ray, beam, wave, photon, energy, source, opaque, size, distance, change, tilt, see, transparent, rainbow, bend, focus, focal point, normal, periscope, travel, vacuum,

Key Skills Developed— identify scientific evidence that has been used to support or refute ideas or arguments, carry out investigations to test scientific theories by using prisms, mirrors and colour wheels to investigate how light reflects, refracts and travels

History/Geography

Unit Title (Geography)—Trade and Economics

Key Knowledge—understand why countries trade with each other, explain what the trade links are between the UK and China (with a focus on Datong), explain the global supply chain, explain what fair trade is and why it is important, explain Manchester's part in the future global economy

Key Vocabulary—globalisation, trade, import, key, China, Fairtrade, trading, global supply chain, export, water, population, waste, housing, demographics, energy, food, minerals

Key Skills Developed—map reading and place location using a variety of different types of maps, explain geographical similarities and differences, make reasoned judgements using a variety of sources, describe different types of settlement and land use

Art/Design Technology

Unit Title—Upcycle, Recycle

Artist Focus—NA

Key Knowledge—to link work in geography on land use to the need to recycle product; how to create and follow a design brief considering target consumer; how to market a product; how to evaluate a product

Key Vocabulary—recycle, reuse, budget, upcycle, create, plan, target consumer, marketing, advertise

Key Skills Developed— follow a plan through from product design, manufacture, marketing and sale; evaluate a product against a design brief; use recycled materials to create a new product; create list of resources needed to create a product

Outcome—Creation of variety of products for sale made from recycled materials

PE

Key Skills—yoga, racquet games

Key Vocabulary—balance, breathe, stretch, pose, meditate, mindful, reflect, strike, backhand, forehand,

Music—Charanga Unit

Happy

French—Catherine Cheater

Term and Focus—Spring 2

Wonder—RJ Palacio

Christian Value—Forgiveness

PSCHE Focus—

Cross-Curricular Maths

Science—presentation of results

Geography—use of coordinates in map work

Cross-Curricular Writing

RE—Eye Witness Account

Geography—formal letter and report

Science—Write up of investigations

Enhancement Ops

Diversity Week

Visit from Town Planner

Leading in Church

#LiveLent Project

English

Key Text—Wonder—RJ Palacio

Grammatical knowledge developed—using colons, dashes and semi-colons to separate clauses, using hyphens to avoid ambiguity, revision of passive, subjunctive and use of inverted commas

Spelling rules—

Key genres—diary; narrative; diary; formal letter

Key vocabulary—character; narrative, IMPs; voice; punctuation

Maths

Focus—measure, area, perimeter and volume, ratio, angles

Key Knowledge—Metric measures; convert metric measures; calculate with metric measures; miles and kilometres; imperial measures; area and perimeter of rectangles, parallelograms and triangles; area of compound shapes; volumes of cuboids; using ratio language; ratio and fractions; ratio symbols; calculating ratio; using scale factors; calculating scale factors; ratio and proportion problems; measure using a protractor; missing angles; vertically opposite angles; angles in a triangle; angles in a quadrilateral

Key Vocabulary—litres, millilitres, grams, kilograms, tonnes, millimetres, centimetres, metres, kilometres, seconds, minutes, hours, convert, miles, pounds, ounces, stones, feet, inches, fluid ounces, pints, gallons, area, perimeter, formula, rectangle, parallelogram, triangle, compound shape, ratio, scale factor, angle, degree, turn, right angle, obtuse, acute, reflex

RE

Unit Title—Who was Jesus? Who is Jesus?

Key Questions—Who was Jesus? Who is Jesus? Who did Jesus say he was? Was Jesus the Messiah?

Key Knowledge— Jesus is given a variety of names to describe his character and purpose, there is a strong connection between Christmas and Easter and the concepts of incarnation and salvation, that we (Christians) believe Jesus was/is the Messiah and what that means

Key Vocabulary—Messiah, Prince of Peace, Saviour, resurrection, redeemer, servant

Key Skills Developed—express their own and the opinion of others in response to the question 'Who was Jesus?', use appropriate religious vocabulary to show they understand Christian beliefs about Jesus, ask relevant questions in order to discover the answer to the question 'Who was Jesus?', use the Bible as a source to discover the answer to the question 'Who was Jesus?'

Computing (linked to Art)

Unit Title—Digital Photography

Key Knowledge—explain how to use programs on the iPad to digitally manipulate photos; know how to use the key elements of people, colour, light and lines to take successful photo graphs; evaluate the composition of their work and make suggestions on how to improve this; create a portfolio of photographs including different subject matter

Key Vocabulary— light, line, colour, digital, manipulate, present, display

Key Skills Developed—use an iPad to take photos, use editing programs to digitally manipulate photographs

Science

Unit Title—Human Body including the circulatory system (across Summer 1 and 2)

Scientist Focus—William Harvey

Key Knowledge—know and identify the main parts of the circulatory system, explain the different functions of the heart, lungs and blood vessels, explain how the digestive system breaks down nutrients, explain what constitutes a healthy lifestyle, understand the processes of how water and nutrients are transported around the body, understand the connection between circulatory and digestive system

Key Vocabulary—circulatory system, heart, lungs, blood vessels, blood, artery, vein, pulmonary, alveoli, capillary, digestive, transport, gas exchange, villi, nutrients, oxygen, enzymes, proteins, pancreas, liver, kidney

Key Skills Developed— Identify and explain the variables they will control in an investigation, choose the most appropriate graph to present data, decide on most appropriate type of investigation for a question, report the degree of trust that they have in their results

History/Geography

Unit Title (History)—Ancient Maya

Key Knowledge—to know that the Maya were an important civilisation in Mexico and Guatemala, to understand that their civilisation stretch for many centuries, to understand the Maya numbering system, to recognise the names and attributes of Maya gods and explain some of the stories linked with them, to understand the significance of the Chichen Itza site, to explain some of the key inventions and developments of the Maya, to know the importance of Frederick Catherwood in our understanding of the Maya and to explain what he discovered about these people, to know the different sources of information that we have about the Maya

Key Vocabulary—monument, temple, Chichen Itza, pyramid, cacao beans, priest, warrior, codices, calendar, hieroglyphs, stelae, sources, primary, secondary, reliable

Key Skills Developed—compare sources and suggest which are the most reliable, understand that some sources of information are less reliable give reasons for this, use a variety of sources to collate information

Art/Design Technology

Unit Title—Salsa!

Artist Focus—NA

Key Knowledge—to recognise that recipes can be adapted to take into account taste and number of people, to recognise ways in which different flavours work together/compliment each other, to understand the importance of eating a wide variety of fruit and vegetables, to understand that different ways of preparing fruit and vegetables can alter their texture and consistency

Key Vocabulary—chop, mince, grate, coarse, fine, names of more unusual fruits and vegetables, adapt, proportions, healthy, variety, vitamins, minerals,

Key Skills Developed— to follow a recipe, to make suggestions about how to change a recipe, to design their own recipe based on a design brief, to give reasons for their choices, to make suggestion about how something could be improved

Outcome—own salsa created following a recipe of their own creation

PE

Key Skills—yoga, racquet games

Key Vocabulary—balance, breathe, stretch, pose, meditate, mindful, reflect, strike, backhand, forehand,

Music—Charanga Unit

Music and Identify

French—Catherine Cheater

Term and Focus—Summer 1

Ancient Maya—Non Fiction Texts

Christian Value—Compassion

PSCHE Focus—Living in the Wider World

Cross-Curricular Maths

Science—presentation of results

History—Maya numbering system

Cross-Curricular Writing

RE—Biography

DT—recipe blog

History—tourism brochure, non chronological report, Pok a Tok commentary

Science—Healthy Lifestyle Leaflet, Digestive system explanation, write up of investigation

Enhancement Ops

Due to SATs and writing focus these will be limited this half term, however there will be extra in Summer 2 to compensate for this

English

Key Text—Non Fiction Texts about the Maya/ The Rainmaker/The Road to El Dorado (film work)

Grammatical knowledge developed—how cohesive devices are used to create extended pieces of writing eg topic sentences, relative clauses, conjunctions,

Spelling rules—word families based on common words, words that can be nouns or verbs, words with long /o/ sound spelt 'ou' or 'ow', words ending in ible or ibly

Key genres—diary; non chronological report, tourism brochure, recipe blog, Pok a Tok commentary

Key vocabulary—cohesive devices, topic sentences, relative and subordinate clauses,

Maths—Key focus will also be revision in preparation for SATs test

Focus—angles, statistics

Key Knowledge—measure using a protractor; missing angles; vertically opposite angles; angles in a triangle; angles in a quadrilateral, read and interpret line graphs, draw line graphs, use line graphs to solve problems read, draw, interpret and use percentages with pie charts, the mean

Key Vocabulary—angle, degree, turn, right angle, obtuse, acute, reflex, average, mean, mode, median, pie chart, percentage, line graph, axis

RE

Unit Title—People of Faith

Key Questions—What is faith? What does it mean for a person to have faith? What does it mean to be a person of faith? What motivates people of faith? How does having faith affect people's lives? In what ways have people of Christian faith built God's kingdom on earth? In what ways do people of Christian faith build God's kingdom on earth today?

Key Knowledge— there are people who live and have lived extraordinary lives of faith and we can be inspired by them; there are similarities and differences between the behaviour and values of Christians and people of other faiths; Christian people are called to live out the teaching in the Bible and build God's kingdom through righteous living.

Key Vocabulary—Faith, ministry, mission, kingdom of God and vocation.

Key Skills Developed—tell you who, from the people we have studied, inspires me and why; interpret bible stories and talk about how that story explains what it means to have faith; use appropriate religious vocabulary to talk about the characteristics of a person living out their Christian faith.

Computing (linked to Art)

Unit Title—Year Book Project (across Summer 1 and 2)

Key Knowledge—that there are a variety of programs that can be used to create leaflets and books, that designing is a process and themes/colour schemes need to be considered, that work needs to be evaluated against design criteria and improved

Key Vocabulary— design, aesthetic, evaluate, font, embed, image, text box, shadow, effect, enhance

Key Skills Developed—adding text boxes, embedding picture files, adding effects to pictures, text and other objects, transferring pictures to own work

Science

Unit Title—Human Body including the circulatory system (across Summer 1 and 2)

Scientist Focus—William Harvey

Key Knowledge—know and identify the main parts of the circulatory system, explain the different functions of the heart, lungs and blood vessels, explain how the digestive system breaks down nutrients, explain what constitutes a healthy lifestyle, understand the processes of how water and nutrients are transported around the body, understand the connection between circulatory and digestive system

Key Vocabulary—circulatory system, heart, lungs, blood vessels, blood, artery, vein, pulmonary, alveoli, capillary, digestive, transport, gas exchange, villi, nutrients, oxygen, enzymes, proteins, pancreas, liver, kidney

Key Skills Developed— Identify and explain the variables they will control in an investigation, choose the most appropriate graph to present data, decide on most appropriate type of investigation for a question, report the degree of trust that they have in their results

History/Geography

Unit Title (Geography)—Our Changing World

Key Knowledge—know different types of weathering, describe how physical, chemical and biological weathering changes rocks, know how different coastal features are formed, know and identify famous coastal features of the UK, understand and explain how coasts change over time, understand how human activity could affect the earth by 2050

Key Vocabulary—physical weathering, chemical weathering, acid, dissolve, minerals, biological weathering, erosion, border, invasion, empire, union, political, colony, development, regeneration, protection, physical changes, human changes

Key Skills Developed—field work skills using coast at Prestatyn as point of observation, making observational drawings and photos, collecting data (eg tide times), comparing different coast lines, using aerial and landscape photographs

Art/Design Technology

Unit Title—Street Art

Artist Focus—Banksy

Key Knowledge—know key facts about the supposed identity of the artist Banksy, understand the purpose of street art, understand some of the key facets of graffiti art

Key Vocabulary—graffiti, street art, digital media, rollers, ink, paint, stencil, cut

Key Skills Developed— how to use stencilling in their work, how to create graffiti writing

Outcome—own street art design with a moral message

PE

Key Skills—dance (as part of show), athletics

Key Vocabulary—routine, steps, sequence, develop, throw, catch, run, jump

Music—Preparation for end of year show

French—Catherine Cheater

Term and Focus—Summer 2

Our Castle by the Sea—Lucy Strange

Christian Value—Hope

PSCHE Focus—Being safe, your body, puberty, transition

Cross-Curricular Maths

Science—presentation of results

Geography—interpretation of data

Cross-Curricular Writing

RE—report of ideas of God in other faiths

Geography—Report on Britain 2050; tourism brochure for Wales

Science—write up of investigation, persuasive letter re: benefits of not smoking and drinking

Enhancement Ops

End of Year Show

Wales Trip

Leavers' Service (diocese and school)

Confirmation Preparation

English

Key Text—Our Castle by the Sea—Lucy Strange

Grammatical knowledge developed—revision of key concepts for use in writing

Spelling rules—word families based on common words, words that can be nouns or verbs, words with long /o/ sound spelt 'ou' or 'ow', words ending in ible or ibly

Key genres—narrative, letter, recount (memory writing)

Key vocabulary—character, inverted commas, ISPACEd, DADWAVERS, cohesion

Maths

Focus—investigations

This unit will take the form of using different investigations including: NRich investigations on place value, rounding, negative numbers, dicey operations and Fibonacci numbers

Vocabulary—explain, evaluate, engage, process, sequence, logical, trial, elaborate, pattern

Key Skills Developed—pupils will be able to try different approaches to problem solving, pupils will be able to recognise that a problem can have different outcomes, pupils will use their number knowledge (eg factors, equivalence) to spot and describe patterns, pupils will build resilience in their mathematical working

RE

Unit Title—Ideas About God (links with Islam and Hinduism)

Key Questions—What words would you use to describe God? What is the nature and character of God? What images do you have of God? How is it possible for God to be visible and yet invisible? Where is God? How old is God? What is God's name? What makes God happy? What makes God sad? What does God do all day? Does God really know everything? How do you know?

Key Knowledge— Bible stories help to deepen our knowledge and understanding of God; we (Christians) believe God is three in one, the Trinity; God is given many names by Christians and members of non-Christian faiths. These names describe His nature and characteristics; Bible texts are used to answer questions about the characteristics and nature of God; other faiths believe in a creator God; what the significance of the first pillar of Islam is

Key Vocabulary—God, Father, Son and Holy Spirit, Trinity and Celtic, Allah, Brahman, Islam, Hinduism, pillars

Key Skills Developed—use religious language to show they are developing an understanding of the Trinity; identify the elements in Christian worship that express Christian beliefs about God.; ask big questions and express their own views.

Computing (linked to Art)

Unit Title—Year Book Project (across Summer 1 and 2)

Key Knowledge—that there are a variety of programs that can be used to create leaflets and books, that designing is a process and themes/colour schemes need to be considered, that work needs to be evaluated against design criteria and improved

Key Vocabulary— design, aesthetic, evaluate, font, embed, image, text box, shadow, effect, enhance

Key Skills Developed—adding text boxes, embedding picture files, adding effects to pictures, text and other objects, transferring pictures to own work