

Curriculum Overview for LKS2 – Year 2 Autumn Term Being a Scientist



English Overview of Year 3/4

Reading
Y3 Use knowledge to read 'exception' words
 Read range of fiction & non-fiction
 Use dictionaries to check meaning
 Prepare poems & plays to perform
 Check own understanding of reading
 Draw inferences & make predictions
 Retrieve & record information from non-fiction books
 Discuss reading with others
Y4 Secure decoding of unfamiliar words
 Read for a range of purposes
 Retell some stories orally
 Discuss words & phrases that capture the imagination
 Identify themes & conventions
 Retrieve & record information
 Make inferences & justify predictions
 Recognise a variety of forms of poetry
 Identify & summarise ideas

Writing
Y3
 Use prefixes & suffixes in spelling
 Use dictionary to confirm spellings
 Write simple dictated sentences
 Use handwriting joins appropriately
 Plan to write based on familiar forms
 Rehearse sentences orally for writing Use varied rich vocabulary
 Create simple settings & plot
 Assess effectiveness of own and others' writing
Y4
 Correctly spell common homophones
 Increase regularity of handwriting
 Plan writing based on familiar forms
 Organise writing into paragraphs
 Use simple organisational devices
 Proof-read for spelling & punctuation errors
 Evaluate own and others' writing
 Read own writing aloud

Grammar
Y3 Use range of conjunctions
 Use perfect tense
 Use range of nouns & pronouns
 Use time connectives
 Introduce speech punctuation
 Know language of clauses
Speaking & Listening
 Give structured descriptions
 Participate activity in conversation
 Consider & evaluate different viewpoints
Yr4 Use wider range of conjunctions
 Use perfect tense appropriately
 Select pronouns and nouns for clarity
 Use & punctuate direct speech
 Use commas after front adverbials
Speaking & Listening
 Articulate & justify opinions
 Speak audibly in Standard English
 Gain, maintain & monitor interest of listeners

Art & Design

Taking inspiration from great artists, replicate style.
 Commenting on artwork using visual language.
 Painting techniques – comparing media, water colour, pastel paint
 Experiment with and comment on use of colour to create mood
 Drawing techniques
 Use different hardness of pencils to show line, tone and texture.
 Annotate sketches to explain and show ideas (scientist note book) sketch lightly (no need for rubber)
 Use shading to create light and dark
 Use hatching and cross hatching to show tone and texture.

Design & Technology

Cooking - Prepare ingredients hygienically using appropriate utensils.
 Measure ingredients to the nearest gram accurately. Follow a recipe.
 Assemble or cook ingredients (controlling the temperature of the oven or hob, if cooking). **Volcano model / cake box/card**
 Cut materials accurately and safely by selecting appropriate tools. Measure and mark out to nearest mm
 Apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs).
 Select appropriate joining techniques.
Design and evaluate
 Design with purpose by identifying opportunities to design.
 Make products by working efficiently (such as by carefully selecting materials).
 Refine work and techniques as work progresses, continually evaluating the product design.

Computing

Internet safety – Using internet responsibly
 Give examples of the risks posed by online communications.
 Understand the term 'copyright'.
 Understand that comments made online that are hurtful or offensive are the same as bullying.
 Understand how online services work.
Presentation
 Use some of the advanced features of application and devices in order to communicate ideas, work or messages professionally
Date Bases - Devise and construct databases using applications designed for this purpose in areas across the curriculum.

Geography

• Physical geography, including: mountains, volcanoes earthquakes Scientist/Reporter
 • Human geography, including: settlements and land use. Scientist/Environmentalist
 Human geography, including: settlements and land use

Milestone 2CQ

Number/Calculation
Y3
 Learn 3, 4 & 8x tables
 Secure place value to 100
 Mentally add & subtract units, tens or hundreds to numbers of up to 3 digits
 Written column addition & subtraction
 Solve number problems, including multiplication & simple division and missing number problems
 Use commutativity to help calculations
Y4
 Know all tables to 12 x 12
 Secure place value to 1000
 Use negative whole numbers
 Round numbers to nearest 10, 100 or 1000
 Use Roman numerals to 100 (C)
 Column addition & subtraction up to 4 digits
 Multiply & divide mentally

Maths Overview Year 3/4

Geometry & Measures
Y3 Measure & calculate with metric measures
 Measure simple perimeter
 Add/subtract using money in context
 Use Roman numerals up to XII; tell time
 Calculate using simple time problems
 Draw 2-d / Make 3-d shapes
 Identify and use right angles
 Identify horizontal, vertical, perpendicular and parallel lines
Y4 Compare 2-d shapes, including quadrilaterals & triangles
 Find area by counting squares
 Calculate rectangle perimeters
 Estimate & calculate measures
 Identify acute, obtuse & right angles
 Identify symmetry
 Use first quadrant coordinates
 Introduce simple translations
Data Use bar

Fractions & decimals
Y3 Use & count in tenths
 Recognise, find & write fractions
 Recognise some equivalent fractions
 Add/subtract fractions up to <1
 Order fractions with common denominator
 Recognise tenths & hundredths
 Identify equivalent fractions
 Add & subtract fractions with common denominators
 Recognise common equivalents
 Round decimals to whole numbers
 Solve money problems
Data
Y3 Interpret bar charts & pictograms

Modern Languages

Spanish
 Write a few short sentences using familiar expressions.
 Express personal experiences and responses.
 Write short phrases from memory with spelling that is readily understandable
 Read and understand the main points in short written texts.
 Use a translation dictionary or glossary to look up new words
 Understand the main points from spoken passages.
 Ask others to repeat words or phrases if necessary.
 Ask and answer simple questions and talk about interests.
 Take part in discussions and tasks.
 Demonstrate a growing vocabulary.
 Describe with some interesting details some aspects of countries or communities where the language is spoken.
 Make comparisons between life in countries or communities where the language is spoken and this country.

Music

Perform - Sing from memory with accurate pitch. Sing in tune.
 Maintain a simple part within a group. Pronounce words within a song clearly. Show control of voice. Play notes on an instrument with care so that they are clear. Perform with control and awareness of others.
Compose and perform melodic songs. Use sound to create abstract effects. Create repeated patterns with a range of instruments.
 Create accompaniments for tunes. Use drones as accompaniments.
 Choose, order, combine and control sounds to create an effect. Use digital technologies to compose pieces of music.
Transcribe - Devise non-standard symbols to indicate when to play and rest. Recognise the notes EGBDF and FACE on the musical stave. Recognise the symbols for a minim, crotchet and semibreve and say how many beats they represent.
Describe - Use the terms: duration, timbre, pitch, beat, tempo, texture and use of silence to describe music. Evaluate music using musical vocabulary to identify areas of likes and dislikes. Understand layers of sounds and discuss their effect on mood and feelings.

Science Milestone 2

Chemistry - To investigate materials
Rocks and Soils
 Compare and group together different kinds of rocks on the basis of their simple, physical properties.
 Relate the simple physical properties of some rocks to their formation (igneous or sedimentary).
 Describe in simple terms how fossils are formed when things that have lived are trapped within sedimentary rock.
 Recognise that soils are made from rocks and organic matter.
States of Matter
 Compare and group materials together, according to whether they are solids, liquids or gases.
 Observe that some materials change state when they are heated or cooled, and measure the temperature at which this happens in degrees Celsius (°C), building on their teaching in mathematics.
 Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

History

No history scheduled this term.

Physical Education

Games - Throw and catch with control and accuracy. Strike a ball and field with control. Choose appropriate tactics to cause problems for the opposition. Follow the rules of the game and play fairly. Maintain possession of a ball (with, e.g. feet, a hockey stick or hands). Pass to team mates at appropriate times. Lead others and act as a respectful team member.
Dance - Plan, perform and repeat sequences. Move in a clear, fluent and expressive manner. Refine movements into sequences. Create dances and movements that convey a definite idea.
 Change speed and levels within a performance. Develop physical strength and suppleness by practising moves and stretching.
Swim between 25 and 50 metres unaided. Use more than one stroke and coordinate breathing as appropriate for the stroke being used. Coordinate leg and arm movements. Swim at the surface and below the water.

Religious Education

(Harvest)
 Taking responsibility (DS Yr 3 A)
 Judaism (the exodus/pesach/journey to the promised land) (ASyr 3 A)
 Christmas is coming! (DS Yr 3 A)

Maths – EYFS

- Recognises numerals 1 to 5.
- Counts objects to 10
- Estimates how many objects they can see and checks by counting them.
- Finds one more or one less from a group of up to five objects, then ten objects.
- Orders two or three items by length or height.
- Orders two items by weight or capacity.
- Beginning to use everyday language related to money.

Year 1 –

- Addition and subtraction.
- Number bonds to 10 then 20
- Place value to 50.
- Counting in 2s
- Counting in 10s
- Doubles and halves of numbers
- Compare length and heights
- Compare mass and measure capacity. – Read scales.

Year 2 -

- Multiplication and division – sharing and equal groups.
- Statistics – Tally charts, bar graph & pictograms
- 2D & 3D shapes – properties of shapes
- Making patterns
- Fractions – fractions of numbers and equivalent fractions
- Measuring - height in cm
- Comparing heights
- Develop mental arithmetic.

History

We will be looking at a range of people who are real life Superheroes!



Year 1/2

- Florence Nightingale
 - Rosa Parks
- and Neil Armstrong after half term. We will learn about Space during this time and the moon landing.

Topics to cover -

EYFS – Police, firefighters, Doctors, vets and dentists.

English - Writing

-**Handwriting** – ensuring all letters are formed correctly.

-**Writing** –

EYFS – Meaningful mark making - Writes own name and other things, such as labels and captions.

To attempt write short sentences/questions in meaningful context in all areas of provision.

Year 1 – sentence structure – finger spaces, capital letters, full stops, adjectives and verbs.

Year 2 - . ! ? , and ' Use simple conjunctions, begin to expand noun phrases, prefix and suffix

Writing – Traditional Stories – retelling familiar stories/sequence and story maps. – Super worm,

Midnight superhero – Letter writing wanted posters, speech bubbles.

Non-Fiction writing – Link to History and Florence Nightingale, Neil Armstrong - Space

Spellings – homework for Year 1 and 2 following words from Little Wandle

Phonics – We will be starting Little Wandle Phonics scheme from this term.

EYFS – Begin Phase 3

Year 1 – Phase 5 sounds

Year 2 – Phase 6 – Grammar work, spelling patterns and rules.



Science – Animals including Humans/Earth's movement in Space

- To identify and name some common animals and compare common features.
- To identify, name and sort animals that are herbivores, carnivores, and omnivores.
- To sort animals according to criteria.
- To name and label the parts of the human body
- To name the five senses and to perform simple tests to find out more about them.
- Investigate the characteristics of winter/spring
- Forest School – Outdoor learning.

Reading

EYFS – Enjoy and discuss picture books.

Hears and says the initial sound in words.

Segment the sounds in simple words and blend them together.

Begins to read words and simple sentences.

Enjoys an increasing range of books.



Y1 Read accurately by blending sounds

Read words with very common suffixes

Make simple predictions

Read with more fluency.

Re-read text to fluency

Y2 Develop phonics until decoding secure

Read common suffixes

Read & re-read phonic-appropriate books

Read common 'exception' words

Discuss & express views about fiction, non-fiction & poetry

Ask & answer questions; make predictions

Begin to make inferences

RE

Big Questions – What is prayer?

What difference does prayer make to religious people?

World Views - Islam



PSHE

-Healthy Lifestyles – To explore different ways to have a healthy lifestyle from what we eat to what we do.

-Growing up and differences.

EYFS – Oral Hygiene



Computing



-Programming – Using the beebots.

-Research – Use iPad to research real life superheroes and create a fact file.

PE

Gymnastics

Dance

Parachute

Mini Yoga



Geography

-Landmarks around the world.

- Compass points



Art/D.T. –

- To complete an Artist study on Cezanne – still life fruit.
- To create a sculpture with clay.
- To develop a wide range of art and design techniques in using colour, pattern, texture, line, shape, form
- To design and make a pop-up picture and make a moving vehicle for a superhero.



Music

- Singing activities – using their voices to make different sounds.
- Clapping exercises will be used to think about different rhythm patterns.
- Listening and comment on different genres of music.