

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

Develop ideas from starting points throughout the curriculum. Collect information, sketches and resources. Adapt and refine ideas as they progress. Explore ideas in a variety of ways. Comment on artworks using visual language.
Techniques
 Use a number of brush techniques using thick and thin brushes to produce shapes, textures, patterns and lines. (create mountain lines)
 • Mix colours effectively.
 • Use watercolour paint to produce washes for backgrounds then add detail.
Collage
 • Select and arrange materials for a striking effect, Ensure work is precise, Use overlapping.
DT – Making shapes from nets - Create and combine shapes to create recognisable forms (e.g. shapes made from nets or solid materials)
 Taking Inspiration- Pollock Replicate some of the techniques used by notable artists, artisans and designers.
 • Create original pieces that are influenced by studies of others.

Computing

Be safe – 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.

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

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.

Geography

physical geography: including: mountains, volcanoes earthquake
 Science links to water Cycle
human geography, including: settlements and land use linked to mountain areas and living near volcanoes/earthquake zone, building designs due to Earthquakes – New Zealand link/daily life. Land use around.
Mapping – Use of atlases and on-line maps
 World Map - key topographical features and land-use patterns; and understand how some of these aspects have changed over time.
 North America touch point – 1906 Fault, San Francisco.
UK - Name and locate counties and cities of the United Kingdom, geographical regions and their identifying human and physical characteristics, including mountains
Understanding the Globe
 Describe geographical similarities and differences between countries.

Milestone

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

Not formally timetabled this term.
 Famous people and events referenced through other subjects.

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

• Use the terms: beat, pulse, duration, tempo, rhythm.
 Create and follow patterns.
 Play rhythm with increasing accuracy.
Describing 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.
Transcribe
 • Devise non-standard symbols to indicate when to play and rest.
 • Recognise the symbols for a minim, crotchet and semibreve and say how many beats they represent.

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.
Athletics
 To know the difference in body function in rest and in exercise- To control running short, middle distance and long distance runs.
 Throwing with accuracy and power using a controlled technique.

R.E.

Creation – What do Christians learn from the creation story?
 Judaism – The Synagogue
 Incarnation – What is the Trinity?

RE

This term we will be looking at the Christian Story and considering 'What do Christians learn from the creation story?' We will also learn about the role of the Gospels and we mean by The Trinity.

We will also be learning about Judaism and The Synagogue. This term we will be having a virtual tour rather than a visit.



Art

We'll begin the year by revising the skills colour mixing techniques. We will look at water colours paint techniques and works of art for inspiration to create our own water colour mountain pictures. We will explore the technique of layering to create a collage. We will also move onto to look at the work of Jackson Pollock and create our own pieces of work.



Geography

We will be investigating physical geography this term and finding out about mountains, volcanoes and earthquakes. We will be using range of maps, atlases and online maps to locate mountains and volcanoes around the world and within Britain. We will also be looking at what places are like and how life is affected by the landscape.



Science Rocks and Soils/ States of Matter

This term we will be comparing and contrasting the different kinds of rocks and soils and find out how fossils are formed. Our science compliments our work on physical geography this term.

We will then go onto States of Matter and investigate how and why some materials change state when they are heated or cooled and try to make it rain in our classroom! We will link this to the water cycle, which again links into our geography.



Being a scientist



D.T. It is an absolute must to create our own flowing volcanoes. We will take a look at structures and investigate what to consider when designing strong shapes.

We will also be baking and decorating a tasty Christmas Cake. This will link with science as we observe changes in the cooking process.



Music

In music term we will not be allowed to sing inside or blow any instruments, so our learning will be based around learning the rudiments of music, focussing on pulse, rhythm, duration with notation.



Maths

We will be recapping knowledge from the previous year as we go and focussing our attention on the place value of numbers; learning and practising our multiplication tables and related division facts and learning more about the four operations. We'll also be applying mathematical skills through other subjects too.



PHSE

We will be settling back into school and working on building our relationships and learning to Learn skills. We will be learning about keeping safe.



PE

Will be with Mr Larkin, and Mrs Scillitoe.

This term they will be developing skills in athletic and in games through hockey.



Literacy

Literacy skills are on-going and permeate all subjects. We will be developing our speaking and listening; in writing we will be looking at a range of non-fiction and fiction; spelling will be taught discretely and revisited through the week; reading, in our whole class daily reading sessions will be focusing on all skills on reading linking

MFL

In Spanish we will be focussing on core vocabulary to do with greetings, numbers and learning about the some of the cultural aspects of Spain. We will mainly focus on speaking but also begin learning to recognise written words and practising writing too.



Computing

At the start of the school year, we will be learning about keeping ourselves safe on line. We will also be learning about using the internet as a research tool.

We will be using computers to help to gather and organise data and present our work.



Our team in Rowan Class:

Mrs Mortimer, Mrs Scott and Mrs Mizon

