

Science

Working scientifically

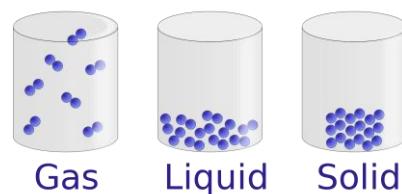
- asking relevant questions and using different types of scientific enquiries to answer them.
- setting up simple practical enquiries, comparative and fair tests.
- making systematic and careful observations and, where appropriate, taking accurate measurements .
- using standard units, using a range of equipment, including gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.
- recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.
- reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.
- using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.
- identifying differences, similarities or changes related to simple scientific ideas and processes using straightforward scientific evidence to answer questions or to support their findings.

States of Matter:

Sc4/3.1a compare and group materials together, according to whether they are solids, liquids or gases

Sc4/3.1b observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)

Sc4/3.1c identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.



Art

William Morris Study

Ar2/1.1 to create sketch books to record their observations and use them to review and revisit ideas

Ar2/1.2 to improve their mastery of art and design techniques: drawing, painting, printing and pastels



**Year 4
National Curriculum**
What was important to our local Victorians?

Computer Science

*Explain what variables and loops are and how they are used in a program to create their own computer game on Scratch

*Use a variety of tools to create a program

*Recognise that an algorithm will help them to sequence more complex programs

PE

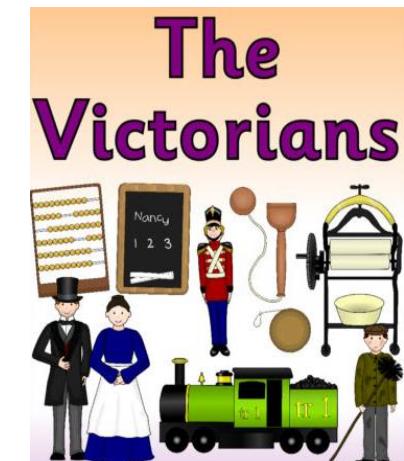
- To develop competence to excel in a broad range of physical activities
- To ensure children are physically active for sustained periods of time
- To lead healthy, active lives.

History

The Victorians:

Pupils should be taught about an aspect of local history

Pupils should be taught a study of an aspect or theme in British history that extends pupils' chronological knowledge beyond 1066



RE

- to extend their knowledge and understanding of religions and worldviews recognising their local, national and global contexts.
- to be curious and to ask increasingly challenging questions about religion, belief, values and human life.
- to express their own ideas in response to the material they engage with, identifying relevant information, selecting examples and giving reasons to support their ideas and views.

English NC links

Reading:

- Develop positive attitudes to reading and understanding of what they read.
- Understand what they read, in books they can read independently.
- Retrieve and record information from non-fiction.
- Participation in discussion about both books that are read to them or those read by themselves, taking turns and listening to what others say.

Writing:

- write with increasing legibility, consistency, quality and with increasing speed
- plan, draft and evaluate including proof-read for spelling and punctuation errors
- perform their own compositions, using appropriate intonation, volume, and movement so that meaning is clear
- develop their understanding of the concepts of grammar, use and understand the grammatical terminology

Grammar & Punctuation:

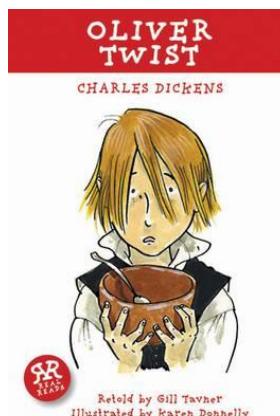
- Co-ordinating & subordinating conjunctions
- Past & present perfect tense
- Nouns/pronouns – reduce repetition
- Time/cause – conjunctions, adverbs & prepositions
- Fronted adverbials
- Commas
- Apostrophes – reinforce contraction and introduce possession
- Direct speech and related punctuation

Whole School Text: The Man Who Walked Between The Towers by Mordicai Gerstein

Y4 Writing Outcome: Newspaper Report

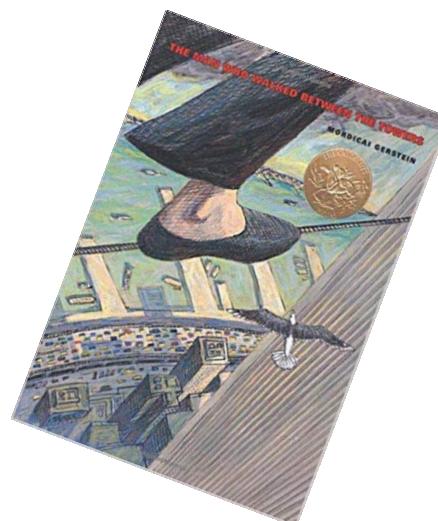
Whole Class Texts:

Oliver Twist (retold) – link to History topic



Writing outcomes:

- *poetry
- *play-script
- *diary entries
- *letter writing in role (persuasive)
- *character profile
- *newspaper report



Mathematics

Number - multiplication and division

Pupils should be taught to:

- recall multiplication and division facts for multiplication tables up to 12×12
- use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers
- recognise and use factor pairs and commutativity in mental calculations
- multiply two-digit and three-digit numbers by a one-digit number using formal written layout
- solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects

Ma4/2.4 Fractions (including decimals)

Ma4/2.4a recognise and show, using diagrams, families of common equivalent fractions

Ma4/2.4b count up and down in hundredths; recognise that hundredths arise when dividing an object by a 100 and dividing tenths by 10.

Ma4/2.4c solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

Ma4/2.4d add and subtract fractions with the same denominator

Ma4/2.4e recognise and write decimal equivalents of any number of tenths or hundredths

Ma4/2.4f recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$

Ma4/2.4g find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths

Ma4/2.4h round decimals with 1 decimal place to the nearest whole number

Ma4/2.4i compare numbers with the same number of decimal places up to 2 decimal places

Ma4/2.4j solve simple measure and money problems involving fractions and decimals to 2 decimal places