

Ancient Greece 2023/24 (Spring term)

Synopsis:

Learning Sequence:

Teach Computing; Programming A (Variables in Games), Data and Information (Introduction to Spreadsheets)

- Lesson 1 Introducing variables
- Lesson 2 Variables in programming
- Lesson 3 Improving a game
- Lesson 4 Designing a game
- Lesson 5 Design to code
- Lesson 6 Improving and sharing
- Lesson 1 Collecting Data
- Lesson 2 Formatting a spreadsheet
- Lesson 3 What's the formula?
- Lesson 4 Calculate and duplicate
- Lesson 5 Event planning
- Lesson 6 Presenting data

Science

Learning Sequence:

See White Rose planning https://whiteroseeducation.com/resources?year=year-6-science&subject=science (plus 'renewable energy' block from Autumn term)

Make Observations	Independently decide which observations to make
Perform Tests	Recognise and control variables where necessary Explain which variables need to be controlled and why
Ask Questions	Plan different types of scientific enquiry in order to answer questions
Gather Data	Decide how to record data/results of increasing complexity using diagrams, classification keys, tables, scatter graphs, bar and line graphs
	Report and present findings from enquiries, examining causal relationships and reliability of results
Analyse Data	Use test results to make predictions to set up further tests (comparative/fair) and explain reasoning
Use Equipment	Take measurements using a range of scientific equipment with accuracy and precision, taking repeat readings where appropriate

Animals Including Humans	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood
	Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function
	Describe the ways in which nutrients and water are transported within animals, including humans
Light	Recognise that light appears to travel in straight lines
	Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye
	Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes
	Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them
	Writing
Learning Sequence: Classic plays: Shakespeare Greek myths	
Language & Vocabulary	Use knowledge of language from stories, plays and poetry to enhance the effectiveness of their writing
	Become familiar with the language of writing eg figurative language, imagery, style and effect
	Use dictionaries (and thesauruses) to check meaning of new words/language
	Select appropriate language and vocabulary to reflect their understanding of audience and purpose
	Develop characters, settings and atmosphere using language and vocabulary from reading/books
	Integrate dialogue to advance action and convey character
Plan, Draft, Edit & Evaluate	Use dictionaries to check the spelling and meaning of words
	Note and develop initial ideas drawing on reading
Grammar & Punctuation	Use verb tenses consistently and correctly throughout their writing
	Use the semi-colon, colon and dash when writing lists or as the boundary between independent clauses
	Use wider range of cohesive devices (repetition of word/phrase, adverbial and ellipsis)
Text Structure & Features	Use knowledge of language and structure gained from stories, plays, poetry and non-fiction in their writing
	Reflect understanding of audience and purpose through choice of grammar, vocabulary and structure
	Be exposed to wide range of books including myths, legends, fairy stories, modern fiction, fiction from literary heritage and books from other cultures
	In fiction, consider how authors develop character and setting
	Evaluate how authors use language and consider effect on the reader

Maths

Learning Sequence:

See White Rose planning

https://whiteroseeducation.com/resources?	year=year-6-new&subject=maths	(plus 'converting units'	unit from autumn term)
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Fractions	solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts
	solve problems involving similar shapes where the scale factor is known or can be found
	solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
	identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places
	multiply one - digit numbers with up to 2 decimal places by whole numbers
	use written division methods in cases where the answer has up to 2 decimal places
	associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]]
	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
Measurement	solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate
	use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places
	convert between miles and kilometres
	recognise that shapes with the same areas can have different perimeters and vice versa
	recognise when it is possible to use formulae for area and volume of shapes
	calculate the area of parallelograms and triangles
	calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³]
Statistics	interpret and construct pie charts and line graphs and use these to solve problems
Algebra	use simple formulae
, ugebru	generate and describe linear number sequences
	express missing number problems algebraically
	• find pairs of numbers that satisfy an equation with 2 unknowns
	enumerate possibilities of combinations of 2 variables