

Curriculum Map - Term 5

GCSE



English

Creative writing: Pupils will explore the use of narrative voice and narrative point of view. Pupils will be able to use senses to enrich their creative writing and understand the effect of positive and negative vocabulary.

Maths

Algebra: Pupils will learn how to use tables of values for straight line graphs, they will learn how to complete and use a range of values to plot a straight-line graph. Pupils will learn about gradient and intercepts, they will examine the form $y = mx$, so they can concentrate on different slopes of gradients before moving to $y = mx + c$. The greater the gradient, the steeper the line. The c represents the interception of the y axis.

Pupils will also learn about parallel and perpendicular lines, they will learn that the product of a pair of perpendicular lines will always equal to -1 . If they are perpendicular, one gradient is the negative reciprocal of the other. If the lines are parallel to each other, the gradient will be the same to each other, but they have a different y intercept.

Pupils will learn about quadratic factorisation, linking to factors of numbers provide a solid base of making sense of factorisation. Pupils will also look at graphs of quadratic functions, this will allow pupils to understand the layout and representation of a quadratic function. They will focus on substituting a known variable, providing opportunities to interleave aspects of measurement to recap understanding.

Science

Biology:

Pupils will learn about the circulatory system, they will learn how lungs, heart and blood vessels and blood are adapted for their function.

Chemistry:

Pupils will learn about extraction methods.

Physics:

Pupils will learn how objects affect each other, they will learn how to calculate power and work done. Pupils will learn how objects interact with each other, through force fields and contact forces.

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Pupils will look at solving simultaneous equations - subtraction, emphasising how subtracting will eliminate a variable, and addition, considering how zero could be made through addition. They will also learn about function machines - numerical and algebraic.