Key Knowledge/Prior Learning KS2/3 and Retrieval and Suggested Starters

- Sketching linear & quadratic graphs.
- Interpret & find approximate solutions form these graphs.
- Identifying intercepts, gradients & equations of linear graphs.
- Sketch real life graphs including those involving speed, distance, acceleration.
- Substitution of values into algebraic expressions.

Retrieval and Suggested Starters

- Practising the fluency of the above skills.
- Interleaving & problem-solving questions involving the above topics.

KS4 National Curriculum - what students will be practicing

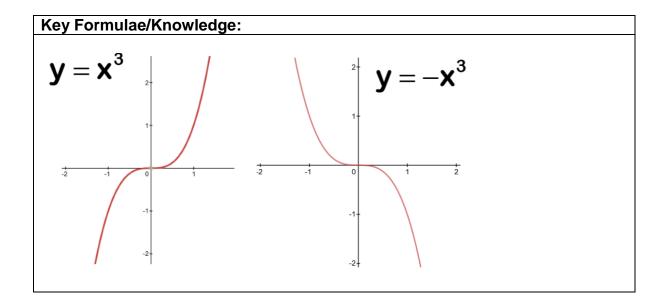
• Plot & sketch cubic and reciprocal graphs.

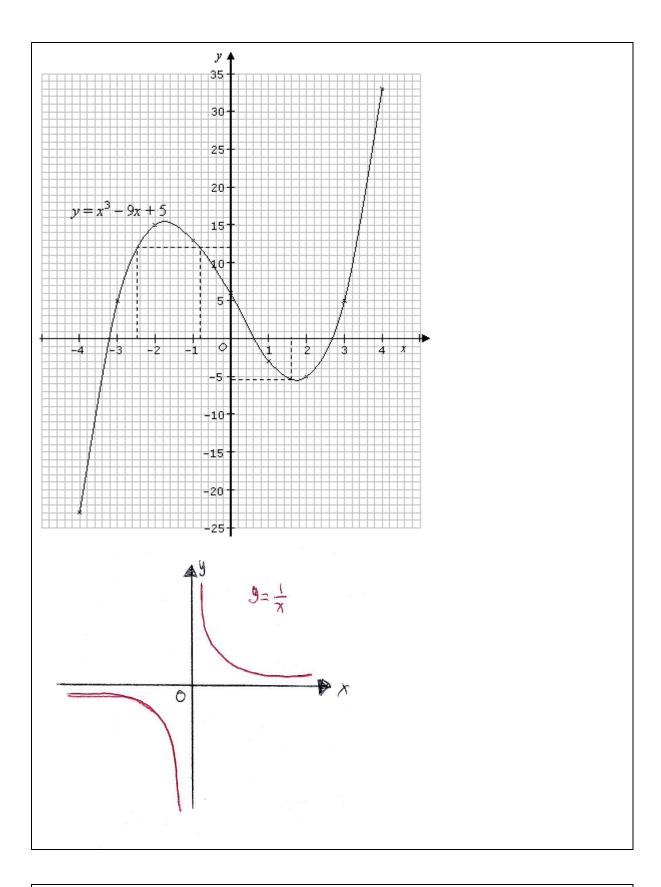
Specific Ambitious Knowledge

• Be able to identify the type of graph based on it's shape.

Key Vocabulary/Literacy Opportunities

- Reciprocal
- Cubic
- Substitution
- Axis
- Intercept
- Asymptote





Cross Curricular Links

• Links to other areas of the maths curriculum such as algebra, Pythagoras.

Student' Thinking

- Why can a reciprocal graph never have a value of x=0?
 What happens to the graph if you add a constant to the cubic equation?

Projects/Enrichment/Investigations		
	Back Fitter	
	What's That Graph?	