



<p><b>Skills</b></p>	<p>decided on the shape of the graph, identify the y intercept of a graph, use the correct multiplier for growth and decay interest questions</p>	<p>that branches on the tree diagram will sum to 1. Be able to plot graphs and label axis accurately, be able to use an appropriate scale . Correlation and relationship between variables.</p>	<p>vectors and use translations, use a compass and ruler accurately.</p>	<p>a mirror line is and what effect a scale factor can have on enlargement, identify linear lines</p>		
<p><b>Key Questions</b></p>	<p>How can you tell if a quadratic graph will be a positive shape or a negative shape? what is the different between an exponential and a reciprocal graph? give an example of where simple interest calculations could be used?</p>	<p>What do all probabilities add up to? What factors can cause bias when sampling ? Can you graph a negative, positive and no correlation graph?</p>	<p>Why is AAA not a measure for congruency? Can you bisect an angle? what does a perpendicular bisector allow us to do? Give an example of loci in real life?</p>	<p>What is the reflection line? Can a scale factor be negative as well as positive?</p>		

## Assessment

Students sit an end of term test at the end of each term, these are marked by the teacher and a full ReACT to the test is completed in lesson, teachers will use a visualiser to model the answers and identify marks and common misconceptions. Continued low stake questioning in class. Peer mentoring. AFL whiteboards and encouragement

### **AO1: Use and apply standard techniques**

Students should be able to:

- accurately recall facts, terminology and definitions.
- use and interpret notation correctly.
- accurately carry out routine procedures or set tasks requiring multi-step solutions.

### **AO2: Reason, interpret and communicate mathematically**

Students should be able to:

- make deductions, inferences and draw conclusions from mathematical information.
- construct chains of reasoning to achieve a given result interpret and communicate information accurately.
- present arguments and proofs.
- assess the validity of an argument and critically evaluate a given way of presenting information.

### **AO3: Solve problems within mathematics and in other contexts**

Students should be able to:

- translate problems in mathematical or non-mathematical contexts into a process or a series of mathematical processes.
- make and use connections between different parts of mathematics.
- interpret results in the context of the given problem.
- evaluate methods used and results obtained.
- evaluate solutions to identify how they may have been affected by assumptions made.

<p>teracy/ numeracy/ SMSC/ Character</p>	<p><b><u>Literacy:Key word as above, additional knowledge organisers provided to students at the beginning of a new topic , collins dictionary definitions shared <a href="https://www.collinsdictionary.com/word-lists/mathematics-mathematical-terms">https://www.collinsdictionary.com/word-lists/mathematics-mathematical-terms</a>. Knowledge organisers will be stuck into books at the beginning of every new topic, to promote literacy and key vocabulary and skills.</u></b></p> <p><b><u>Freya Model, defining mats:(definition, facts, examples and non examples, including misconceptions). VCOP support models to aid students in using connectives and other language devices to explain a mathematical model or compare data.<a href="https://www.missbsresources.com/maths-resources/literacy-within-mathematics">https://www.missbsresources.com/maths-resources/literacy-within-mathematics</a></u></b></p> <p><b><u>Numeracy:Key skills are outlined</u></b></p> <p><b><u>Character/SMSC/:<a href="https://www.bbc.co.uk/bitesize/tags/zrsg6v4/jobs-that-use-maths/1">https://www.bbc.co.uk/bitesize/tags/zrsg6v4/jobs-that-use-maths/1</a> links to jobs that relate to maths are relayed regularly in lessons, opportunities for cross curricular links outlined in scheme of work.</u></b></p> <p><b><u>Oracy: encourage teacher-led discussion with equal emphasis on speaking and listening. Group work/paired work. Teacher models correct mathematical processes. Opportunities for logical reasoning and dialogue e.g via Inquiry Maths and reasoning/proof tasks. No hands up questioning approached used</u></b></p>
<p><b>Enrichment opportunities and futures</b></p>	<p>Intermediate maths challenge Revision sessions after school, Holiday revision sessions STEM club Statistics project -Real life application to collate and analyse data Maths buddies- opportunities to work with different ages groups and ability Trips, outside speakers and futures links within curriculum.</p>