## Dasis Academy Drismiglon, Curriculum



## **Programme of Study - Maths**

We want to develop students who are engaged and curious about mathematics, and confident in **problem solving** because they are **proficient** at **reasoning**, and **fluent** with key maths concepts. Our teachers will be engaged and curious about students' learning. Students know where logical thinking can take them in life.

## Year 9





Year 9						
Rationale/ narrative	Our Year 9 curriculum is designed to build on the foundations created in Year 7 and 8, where students will develop and deepen their understanding of algebra, geometry and proportion.					
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Coordinates, linear graphs, proportion and standard form	Algebraic expressions	2D geometry	Equations and inequalities	Geometry	Statistics
Content	Big Learning Question: What is the point of a graph?  Knowledge and skills covered: Unit 1 – coordinates Unit 2 – linear graphs Unit 3 – direct and indirect proportion Unit 4 – scales and standard form	Big Learning Question: Why don't we change the subject?  Knowledge and skills covered: Unit 5 – sequences Unit 6 – expanding and factorising brackets Unit 7 – changing the subject of a formula	Big Learning Question: What is the difference between congruence and similarity?  Knowledge and skills covered: Unit 8 — constructions Unit 9 — congruence and similarity Unit 10 — triangles and quadrilaterals Unit 11 — angles in polygons	Big Learning Question: How can you solve simultaneous equations? Knowledge and skills covered: Unit 12 – linear equations and inequalities Unit 13 – simultaneous equations Unit 14 – quadratic and other graphs	Big Learning Question: Who was Pythagoras?  Knowledge and skills covered: Unit 15 — Pythagoras and Trigonometry Unit 16 — transformations Unit 17 - probability	Big Learning Question: What is the average?  Knowledge and skills covered: Unit 18 – proof Unit 19 – mean from grouped data Unit 20 – comparing data distributions Unit 21 – scatter graphs
Assessment	Autumn 1 Post Assessment	Autumn 2 Post Assessment	Spring 1 Post Assessment	Spring 2 Post Assessment	Summer 1 Post Assessment	Summer 2 Post Assessment
Links:	Knowledge Organisers Hegarty	Knowledge Organisers Hegarty	Knowledge Organisers Hegarty	Knowledge Organisers Hegarty	Knowledge Organisers Hegarty	Knowledge Organisers Hegarty