

Name of your Module: Maths- Geometry TY module

Number of Periods per week: 3

Class Teacher: Mr C McNamee

Aims and Objective:

- To teach pupils to think clearly and logically, to be critical and to generalise correctly.
- The pupils should acquire an accurate, thorough knowledge of specific areas in geometry and how to derive certain aspects.
- To problem solve, reason and demonstrate understanding in the principles and concepts of geometry.

Course outline:

Week 1&2- Introduction to basic concepts of geometry. Use of distance formula, Pythagoras theorem. Apply midpoint and internal divisor formula.

Week 3&4- Calculate the slope of a line or line segment. Derive the slope formula. Interpret the slope of a line or line segment. Exam

Week 5&6- Using eq. of a line to investigate if point is on or off line. How to derive and interpret the equation of a line written in the form $y = mx + c$

Week 7&8- How to derive the equation of a line in the form $ax + by + c = 0$
How to find the point of intersection of two lines using graphical and algebraic methods.

Week 9&10- Learning about parallel and perpendicular lines. How to derive the eq. of a parallel line. How to derive the eq. of a perpendicular line.

Week 11&12- How to calculate area of a triangle using different methods.
Revision. Exam

Mode of assessment: Two class exams and homework as continuous assessment.

Aims	Objectives	Assessment
<ul style="list-style-type: none"> To teach pupils to think clearly and logically, to be critical and to generalise correctly. 	<ul style="list-style-type: none"> Pupils will learn to gather data Pupils will learn to represent that data visually Pupils will analyse the data, making use of mean, mode and median 	<p>Pupils will compile a poster in groups about a sports team/ similar. Each player will have a profile and different stats will be represented on different types of graph then analysed</p>
<ul style="list-style-type: none"> The pupils should acquire an accurate, thorough knowledge of specific areas in geometry and how to derive certain aspects. 	<ul style="list-style-type: none"> Pupils will have fun learning about the odds of different games Pupils will learn how to find the different permutations of words Pupils will create and figure out problems involving combinations and permutations in small groups 	<ul style="list-style-type: none"> Pupils will play different chance-based games, calculating the odds as they go Pupils will make anagrams of words including their names Pupils will correct the problems they created with help from the teacher if needed
<ul style="list-style-type: none"> To problem solve, reason and demonstrate understanding in the principles and concepts of geometry. 	<ul style="list-style-type: none"> Pupils will always have the opportunity to go to peers for help Pupils will have the opportunity to control the learning resources and set work for each other 	<p>Feedback form from pupils at the end of the block to see whether they thought they improved their skills in working with their peers</p>



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