Ecole Internationale Provence-Alpes-Côte d'Azur

Forward Planning

Long-Term Semester Planning

Academic Year: 2022-2023

Class: S3
Subject: Mathematics 4 Periods
Teacher: Ms Rebeca Morones
No. Students: 26

Ecole Internationale Provence-Alpes-Côte d'Azur

Curriculum – Long-Term Planning 2022-2023

Date	Area	Learning Objectives	Activities	Resources	Key Competences	Learning Outcomes / Assessment
September	Number revision	- Prime numbers - Square number - Roots (manually and calculator)	- Classwork - Homework - Test	- Ten ticks. - Cambridge international Mathematics.	1, 2, 4	
September	Number	- Indices (+/-) - Scientific notation. - Arithmetic operations with scientific notation. - Applied questions.	- Classwork - Homework		1, 2, 3, 6, 7	
October	Functions	- Identify linear functions. - Understand the notation and mathematical names of gradient and y/x-intercepts. - Plot graphs given information of gradients and intercepts. - Real life examples of linear functions. - Direct and inverse proportion.	- Classwork - Homework - Test	- Ten ticks. - Cambridge international Mathematics. - Geogebra	1, 2, 3, 4, 5, 6, 7, 8,	
November	Algebra	- Formulae and expressions. - Rearranging formulae. - Applied examples.	- Classwork - Homework - Test	- GCSE Mathematics.	1, 2, 3, 6, 7	

November/December	Geometry	- Revision of angle properties: vertically opposite, alternate interior and exterior angles and corresponding angles. - Circle theorems	- Classwork - Homework - Test	- Ten ticks - Cambridge international Mathematics. - Geogebra.	
December	Maths skills	- Problem solving skills	- Group work - Presentation		1, 2, 3, 4, 5, 6, 7, 8
January	Statistics	- Revision of types of data: Quantitative (continuous, discret) Qualitative - Revision of mean. Median and mode - Choosing the correct measure to describe data.	- Classwork - Homework - Group project		1, 2, 3, 4, 5, 6, 7, 8
January	Geometry	- Revision of transformations. -Revision of enlargement. - Investigating the effect of an enlargement on the perimeter, area and volume of a shape.	- Classwork - Homework	- Working on geoebra drawing shapes and their transformation. - Investigation activity.	1, 2, 3, 4, 5, 6, 7
February/March	Algebra	- Introduction to quadratic expressions - Expanding and factorising quadratic expressions. - Learning the formulae: Binomial expansion of order 2 and difference of two squares.	- Classwork - Homework - Test	- Ten ticks. - Cambridge international Mathematics.	

		- Solving simple quadratic expressions using the square root./absolute value.			
March	Geometry	- Properties in right angled triangles. - Investigate the ratios between sides and angles in right angled triangles.		- Geogebra investigation	1, 2, 3, 4, 5
April	Number	- Introduction to combinatronics. - Strategies for counting.	- Homework - Test	- Ten ticks	1, 2, 3, 4, 5
April/May	Algebra	- Solving equations revision. - x's on both sides and using real numbers, brackets on both sides.		- Ten ticks - GCSE examples	1, 2, 3, 6
May	Geometry	- Area, volumes of prisms, cones, spheres. - Solve applied problems.		- Ten ticks - GCSE exercises - Geogebra	1, 3, 5, 7

* Link to 8 key competences:

1. Literacy (reading and writing)
2. Multilingualism
3. Mathematics, Science, Technology and Engineering
4. Digital
5. Personal, Social and Learning to Learn
6. Citizenship
7. Entrepreneurship
8. Cultural Awareness and Expression