



Forward Planning

Long-Term Semester Planning

Academic Year: 2020-2021

Class: S4 Subject: Mathematics 6Periods Teacher: Ms Rebeca Morones No. Students: 1







Curriculum – Long-Term Planning 2020-2021

Date	Learning Objectives	Activities	Resources	Key Competences	Learning Outcomes / Assessment
September (3 weeks)	Revision	 BODMAS Prime numbers, square numbers, cube numbers. HCF and LCM. Fractions, decimals and percentages. 	- Worksheets. - Bingo games.	1, 2, 3, 4, 5, 6, 7, 8	- Classwork - Homework
September – October (3 weeks)	Sets	 Properties of rational numbers/real numbers. Writing recurrent decimal numbers as fractions. Surds Properties of radicals Rationalising a denominator 	- Worksheets	1, 2, 3, 4, 5, 6, 7, 8	- Classwork - Homework
November (3 weeks)	Proportionality	 Direct proportion: definition and graphs. Inverse proportions: definition and graphs. Applied questions. 	- Worksheets - Geogebra	1, 2, 3, 4, 5, 6, 7, 8	- Classwork - Homework - Test
November - December	Linear models	- Introduction to functions/ relations	- Worksheets. - Geogebra	1, 2, 3, 4, 5, 6, 7, 8	- Classwork - Homework





(4 weeks)		- Differences between			- Test
		them.			
		- Linear models			
		(different equations)			
		- Find intercepts.			
		- Solving simultaneous			
		equations graphically			
		and algebraically.			
		- Gradient and intercept			
		formula and general			
		form.			
		- Parallel lines.			
		- Perpendicular lines.			
		- Pythagoras theorem			
January	Geometry	and its converse		1, 2, 3, 5, 6, 7, 8	- Classwork
(3 weeks)		- Trigonometric ratios	- Worksheets		- Homework
(0 00115)		- Properties of right			- Test
		angled triangles.			
		- Types of data.			- Classwork
	Statistics	- Data collection			- Homework
		- Data interpretation			- Group project
		Dete nemeratetien			
February (3 weeks)		- Data representation - Stem and leaf	- Worksheets	1, 2, 3, 4, 5, 6, 7, 8	
		diagrams	- WORKSHEELS		- Classwork
		- Pie Charts/ Bar charts/			- Homework
		cumulative frequency/			- Group Project
		histograms/ boxplot/ -			Group Project
		Density histograms			
		Density instograms			





March (3 weeks)	Polynomial expressions	 Revision on algebra. Polynomial order Adding subtracting polynomials. Quadratic expressions Factorisation of quadratics. 	- Worksheets. - Geogebra.	1, 2, 3, 4, 5, 6, 8	- Classwork - Homework - Test
April (3 weeks)	Geometry	 Enlargements. Similarity properties for angles, lengths, areas and volumes. Congruent and similar triangles. Intercept theorem 	- Worksheets - Geogebra	1, 2, 3, 4, 5, 6, 8	- Classwork - Homework - Test
May - June (3 weeks)	Probability	 Sample space/ event. Venn diagram/ tree diagram. Finding simple probabilities. Probabilities properties (independent events, mutually exclusive, exhaustive events, complementary). 	- Worksheets	1, 2, 3, 5, 6, 8	- Classwork - Homework - Test

* 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