

PROGRAMME FOR FIRST YEAR MATHEMATICS

2023 – 2024

NEW CONCISE PROJECT MATHS 1

TOPIC	CHAPTER	CONTENT
ORDER OF OPERATIONS	1	ALL
NATURAL NUMBERS	2	ALL
INTEGERS	3	ALL
COLLECTING AND PROCESSING DATA	12	ALL
AVERAGES AND SPREAD OF DATA	13	ALL (Except 13.2)
REPRESENTING DATA	14	ALL
ALGEBRA	6	ALL
LINEAR EQUATIONS	7	ALL
PERIMETER, AREA AND VOLUME	17	17.1 – 17.3
CHRISTMAS EXAM – 1 HOUR		
FRACTIONS	4	ALL
DECIMALS	5	ALL
SETS	10	ALL
RATIO AND PROPORTION	8	ALL
PERCENTAGES	9	ALL
POINTS, LINES AND ANGLES	24	24.1 – 24.4
CONSTRUCTIONS	27	<ol style="list-style-type: none">1. Bisector of an angle, using only compass and straight edge.2. Perpendicular bisector of a line segment, using only compass and straight edge.4. Line perpendicular to a given line l, passing through a given point on l.5. Line parallel to a given line, through a given point.6. Division of a line segment into 2 or 3 equal segments without measuring it.8. Line segment of a given length on a given ray.
COORDINATE GEOMETRY OF THE LINE	29	<ul style="list-style-type: none">• 29.1• Slope of a line using $\pm \frac{\text{Rise}}{\text{Run}}$, no formula, just graph work.• Midpoint of a line segment, no formula, the concept of adding the x coordinates and dividing by 2, adding the y coordinates and dividing by 2.
REAL LIFE APPLICATIONS OF GRAPHS	32	32.1 – 32.2
FACTORS	19	ALL
SIMULTANEOUS EQUATIONS	20	ALL
PROBABILITY	15	ALL
PATTERNS AND SEQUENCES	33	ALL
SUMMER EXAM 1.5 HOURS		