

	Year 7 Mathematics					
	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 2	Summer Term 2
BIG Question Curriculum content Please log into SPARX Maths to support your child.	How can patterns, rules, and equations help us describe relationships and solve problems? - Recognise, continue, and describe sequences. - Predict missing or future terms - Use function machines - Substitute values - Solve equations	How can understanding number structures help us make accurate decisions? - Use place value - Convert between representations - Round numbers - Use mental/formal methods for addition and subtraction - Apply number skills to real contexts	How can multiplication, division help us solve problems efficiently? - Use properties of multiplication/division - Apply formal/mental methods to multiply and divide - Find fractions and percentage of amounts, - Use estimation - Explore multiplication and division in algebra	How can understanding number structures help us reason confidently? - Use representations of directed numbers - Work with fractions - Identify/ use factors, multiples, and primes. - Apply order of operations and substitution - Make and test conjectures	How can measurement and geometric reasoning help us interpret the world accurately? - Solve problems using tables, timetables - Work with perimeter and area. - Use geometric conventions - Apply angle facts - Use reasoning and proof	How can data and probability help us interpret information reliably? - Calculate averages. - Interpret and construct charts - Use probability language and - Construct and interpret probability diagrams - Apply the product rule
10 key words	1. Sequence 2. Term-to-term 3. Linear 4. Function machine 5. Input 6. Output 7. Expression 8. Equation 9. Inverse 10. Substitution	1. Integer 2. Place value 3. Decimal 4. Fraction 5. Percentage 6. Convert 7. Round 8. Estimate 9. Compare 10. Number line	1. Factor 2. Multiple 3. Prime 4. Operation 5. Power 6. Fraction of amount 7. Percentage 8. Estimate 9. Formal method 10. Simplify	1. Directed number 2. Negative 3. Equivalent fractions 4. Improper fraction 5. Mixed number 6. HCF 7. LCM 8. Prime factors 9. Conjecture 10. Counterexample	1. Perimeter 2. Area 3. Angle 4. Parallel 5. Perpendicular 6. Polygon 7. Triangle 8. Quadrilateral 9. Protractor 10. Angle sum	1. Mean 2. Median 3. Mode 4. Range 5. Probability 6. Sample space 7. Two-way table 8. Venn diagram 9. Pie chart 10. Product rule
Catholic social teaching Link	Justice & Fairness	Common Good	Stewardship of Resources	Truth & Discernment	Community & Participation	Truth & Discernment
Careers Link	Engineering & Design Data Science & Computing	Finance & Accounting Science & Engineering	Finance & Business Engineering & Technology	Engineering & Construction Science & Research	Architecture & Construction Transport & Logistics	Data Science & Statistics Public Health Services

Ways to enrich the Year 7 curriculum at home.....

- As a family explore different patterns of tiles found in the house, in churches or mosques. Can you think why they may fit together?
- Interested in REALLY small or REALLY big real-life examples. Explore the sizes of planets compared to the length of ants and spiders.
- Set a timer for 15minutes and create a tally chart to test which is the most popular car colour? Do you think your observations are correct for the whole of the UK?