

Year Studied	Topic List (Y9)	Sparx Independent learning Code	Video	worksheet
7	Laws of arithmetic and priority of operations	U952,M409, M637,M795, M521	Commutative Law Associative Law Distributive Law Order of operations	Worksheet- order of operations
7	Negative numbers	M288 M106	Add/sub Mult Divide	Add/sub Mult/div
7,8,9	Simplifying and manipulating expressions (including expanding and factorising)	M795, M531, M327, M792, M100	Addition - Video Multiplication - Video Expand bracket - Video Factorise - Video	Worksheet Worksheet Worksheet Worksheet
8	Solving equations	M707, M634, M957,M902,M569 M554	Video 1 Video 2	Worksheet 1 Worksheet 2
9	Solving simultaneous equations	M658 M852	Video	Worksheet
9	Sequences	M381, M866, M241, M991	Video	Worksheet
9	Straight-line graphs	M932, M544, M888	Video 1 – drawing Video 2 – equation of line	Worksheet 1 Worksheet 2
7,9	Place value (including rounding and significant figures)	M704, M111, M522, M431, M994	Nearest 10 Nearest 100 Video – significant figures	Worksheet Worksheet
9	Place value: Standard form	M719 M678	Video	Worksheet
7	Calculating with decimals and fractions	M803, M491, M157, M110, M835, M645	Video 1 – Add decimals Video 2 – Mult decimals Video 3 – mult fractions	Worksheet 1 Worksheet 2 Worksheet 3
8	Ratio	M885, M525, M267, M543	Video 1 - simplifying Video 2 – sharing total Video 3 – differences Video 4 – given one value	Worksheet 1 Worksheet 2 Worksheet 3 Worksheet 4
8	Percentages and fraction as a proportion	M437, M695, M476, M528	Video	Worksheet

9	Measure; including converting units and compound measure	M828, M774, M772, U151	Video 1 Video 2 Video – speed/dist/time	Worksheet Worksheet
7,8	Area, perimeter and volume (including circles and cylinders)	M920, M690, M303, M900, M231, M169, M765, M722, M697	Video -area rectangle Video 1 – composite area Video 2 – area circle Video 1 - perimeter	Worksheet Worksheet 1 Worksheet 2 Worksheet perimeter1
8	Angle facts	M351, M319, M653, M679, M163, M606	Video	Worksheet
8,9	Constructions	M565	Video	Worksheet
8	Averages	M841, M328, M940, M934, M440, M127	Video 1 - Median Video 2 - Mean Video 3 - Mode Video 4 - Range	Worksheet
8	Reading and drawing charts and tables (e.g. pie charts, two-way tables, Venn diagrams, bar charts)	M450, M945, M829, M165, M899, M738	Video – barcharts Video – composite bar charts	Worksheet