

Topic	FILENAME	NCL	Type	Lesson Starter Summary	Path to right
ADDITION	AAAS1	N3	SD	Addition: more than one solution.	
ADDITION	AAAS2	N3	SD	Addition: more than one solution.	
ADDITION	AADD51	N3	SD	Addition: more than one solution.	
ADDITION	ADDONS1	N3	SD	Addition: wall type puzzle "Blocks": basic intro.	
ADDITION	ADDONS1B	N3	SD	Addition: wall type puzzle "Blocks": basic intro.	
ADDITION	ADDONS2	N3	SD	Addition: wall type puzzle "Blocks": solving:	
ADDITION	ADDONS2B	N3	SD	Addition: wall type puzzle "Blocks": solving:	
ADDITION	ADDTABS1	N3	SD	Addition: table form.	
ADDITION	ADDUPS1	N3	SD	Addition: wall type puzzle "Steps": basic intro.	
ADDITION	TRIADS1	N3	SD	Addition: triangular puzzles.	
ADDITION	AAAT	N3+	OPEN	Addition: more than one solution.	
ADDITION	AADDT	N3+	OPEN	Addition: more than one solution.	
ADDITION	ADDSUM	N3+	OPEN	Formal addition. Integer sums. Placing digits.	
ADDITION	ADDONS3	N4	SD	Addition: wall type puzzle "Blocks": solving:	
ADDITION	ADDONS3B	N4	SD	Addition: wall type puzzle "Blocks": solving:	
ADDITION	ADDONS4	N4	SD	Addition: wall type puzzle "Blocks" : solving:	
ADDITION	ADDONS4B	N4	SD	Addition: wall type puzzle "Blocks": solving:	
ADDITION	ADDTABS2	N4	SD	Addition: table form.	
ADDITION	ADDTABS3	N4	SD	Addition: table form.	
ADDITION	ADDTABS4	N4	SD	Addition: table form: inverses.	
ADDITION	TRIADS2	N4	SD	Addition: triangular puzzles.	
ADDITION	TRIADS3	N4	SD	Addition: triangular puzzles.	
ADDITION	TRIADS4	N4	SD	Addition: triangular puzzles: negatives.	
ADDITION	TRIADS5	N4	SD	Addition: triangular puzzles: negatives.	
ADDITION	ADDONT	N4+	OPEN	Addition: wall type puzzle "Blocks": open puzzle.	
ADDITION	ADDTABT	N4+	OPEN	Addition: table form.	
ADDITION	ADDUPT	N4+	OPEN	Addition: wall type puzzle "Steps": open puzzle.	
ADDITION	TRIADT	N4+	OPEN	Addition: triangular puzzles.	
ADDITION	ADDSUMD	N4+	OPEN	Formal addition. Decimal sums. Placing digits.	
ADDITION	ADDTABS5	N5	SD	Addition: table form: inverses: negatives.	
ANGLE	ANGLETS1	S4	SD	Angle and Time	
ANGLE	ANGS1	S4	SD	Why 360: angles forming straight line.	
ANGLE	ANGLER01	S4+	OPEN	Interactive angle indicator: rotation.	
ANGLE	ANGLER02	S4+	OPEN	Interactive angle indicator: set and check an angle.	
ANGLE	ANGLE01T	S5	SD	Why 360? Angles of triangle. Angles forming straight line.	
ANGLE	ANGLE02T	S5	SD	Angles between parallel lines.	
ANGLE	ANGLE03T	S5	SD	Exterior and interior angles of regular polygons.	
ANGLE	ANGS2	S5	SD	Naming angles: upper case letters: notation.	
ANGLE	ANGS3	S5	SD	Calculating angles in polygons.	
ANGLE	ANGLE04T	S5+	OPEN	Calculating exterior angles of triangles.	
ANGLE	CANG01	S7+	OPEN	Circle geometry: angles at center and circumference: semi-circle.	
ANGLE	CANG01A	S7+	OPEN	Circle geometry: angle circumference: semi-circle: algebra.	
ANGLE	CANG01C	S7+	OPEN	Circle geometry: angles at center and circumference: algebra.	
ANGLE	CANG02	S7+	OPEN	Circle geometry: interactive tool to explore angles in same segment	
ANGLE	CANG03	S7+	OPEN	Circle geometry: explore angles at center and circumference.	
ANGLE	CANG04	S7+	OPEN	Circle geometry: cyclic quadrilaterals: interactive diagram.	
ANGLE	CANG04Q	S7+	OPEN	Circle geometry: cyclic quadrilaterals: interactive diagram + question.	
ANGLE	CANG05	S7+	OPEN	Circle geometry: cyclic quadrilaterals: more complex interactive diagram.	
ANGLE	ANGLE10T	S8	SD	Circle geometry: semi-circle, center and same segment.	
ANGLE	ANGLE10T2	S8	SD	Circle geometry: semi-circle, center and same segment.	
ANGLE	ANGLE11T	S8	SD	Circle geometry: tangent and cyclic quadrilateral.	
ANGLE	ANGLE12T	S8	SD	Circle geometry: mixture.	
ANGLE	ANGLEC01T	S8+	OPEN	Circle geometry: same segment.	
ANGLE	ANGLEC02T	S8+	OPEN	Circle geometry: same segment: angle at center.	
ANGLE	ANGLEC03T	S8+	OPEN	Circle geometry: same segment: angle at center.	
ANGLE	ANGLEC04T	S8+	OPEN	Circle geometry: angle in semi-circle: cyclic quadrilateral.	
ANGLE	ANGLEC05T	S8+	OPEN	Circle geometry: tangent: same segment: center.	
ANGLE	ANGLEC06T	S8+	OPEN	Circle geometry: tangent: center: equal chords.	
ANGLE	ANGLEC07T	S8+	OPEN	Circle geometry: intersecting tangents.	
ANGLE	CIRCANG4P	S8+	Open	Circle geometry: 4 points : 4 connections: angles calculated.	
ANGLE	CIRCANG4P2	S8+	Open	Circle geometry: 4 points : 6 connections: angles calculated.	
ANGLE	CIRCANGCC	S8+	Open	Circle geometry: angle at center and circumference: angles calculated.	
ANGLE	CIRCANGCC2	S8+	Open	Circle geometry: angle at center and circumference: angles calculated.	
ANGLE	CIRCANGCQ	S8+	Open	Circle geometry: opposite angles of cyclic quadrilateral: angles calculated.	
ANGLE	CIRCGQ01	S8+	SD	Circle geometry: 4 points: intersection: input angles.	
ANGLE	CIRCGQ02	S8+	Open	Circle geometry: 4 points: intersection: input angles.	
ANGLE	CIRCGQ10	S8+	Open	Circle geometry: 4 points: intersection: input angles and distances.	
AREA	PAREAS1	S4	SD	Perimeter and area: grid.	
AREA	AREAQU00	S4+	Open	Area of rectangle: active diagram on grid: area given.	

AREA	AREAQU00Q	S4+	Open	Area of rectangle: active diagram on grid: input area.
AREA	AREATRI	S4+	OPEN	Set triangle and area given. Interactive diagram.
AREA	AREATRIQ	S4+	OPEN	Set triangle and complete area. Interactive diagram.
AREA	AREAQU01	S5	Open	Area of rectangle: active diagram on co-ordinate grid: area given.
AREA	AREAQU02	S5	Open	Area of parallelogram: active diagram on co-ordinate grid: area given.
AREA	AREAQU03	S5	Open	Area of parallelogram and triangle on co-ordinate grid: area given.
AREA	AREAQU04	S5	Open	Area of parallelogram with diagonals on co-ordinate grid: area given.
AREA	AREAQU05	S5	Open	Area of rhombus with diagonals on co-ordinate grid: area given.
AREA	AREAQU06	S5	Open	Area of trapezoid with guide on co-ordinate grid: area given.
AREA	AREAQU06Q	S5	Open	Area of trapezoid on co-ordinate grid: input average width and area.
AREA	AREAQU07	S5	Open	Area of kite, with rectangle guide, on co-ordinate grid: area given.
AREA	AREAQU07Q	S5	Open	Area of kite, with rectangle guide, on co-ordinate grid: input area.
AREA	AREAT1	S5	SD	Area of rectangles.
AREA	AREAT2	S5	SD	Area of triangles.
AREA	AREAT4	S5	SD	Area of shapes made from rectangles and triangles.
AREA	AREAT5	S5	SD	Area of plane shapes: taking spare area from the surrounding grid.
AREA	AREAT5B	S5	SD	Area of plane shapes: taking spare area from the surrounding grid.
AREA	AREAT6	S5	SD	Area of plane shapes: taking away from the surrounding rectangle.
AREA	AREAT7	S5	SD	Area of Trapezia.
AREA	AREAT8	S5	SD	Area of Parallelograms.
AREA	AREAT8B	S5	SD	Area of Parallelograms.
AREA	AREAT9	S5	SD	Area of Kites.
AREA	AREATR00	S5	Open	Area of triangle: active diagram on grid: interactive shear: area given.
AREA	AREATR00P	S5	Open	Area of triangle: rectangle on base: perpendicular: shear : area given.
AREA	AREATR00R	S5	Open	Area of triangle: rectangle on base: interactive shear : area given.
AREA	AREATR01	S5	Open	Area of triangle: co-ordinate grid: rectangle : interactive shear : area given.
AREA	AREATR01E	S5	Open	Area of triangle: cm2 grid: rectangle : 2 variables : input areas.
AREA	AREATR01X	S5	Open	Area of triangle: cm2 grid: rectangle : 3 variables : input areas.
AREA	AREATR02	S5	Open	Area of triangle: 1st quad. co-ordinate grid: rectangle : shear : input area.
AREA	AREATR03	S5	Open	Area of triangle: 4 quad. co-ordinate grid: rectangle : shear : input area.
AREA	AREATRIQ01	S5	SD	Area of triangles from co-ordinate diagrams. 10 problems.
AREA	AREATRIQ02	S5	SD	Area of triangles from co-ordinate diagrams. 10 problems.
AREA	PAREAS3	S5	SD	Area of shapes made from rectangles.
AREA	PAREAS4	S5	SD	Area of shapes made from rectangles.
AREA	PAREAS4B	S5	SD	Area of shapes made from rectangles.
AREA	AREAQUAD	S5+	OPEN	Area of quadrilaterals. Active diagram. Open.
AREA	AREAQUADQ01	S5+	SD	Area of quadrilaterals from co-ordinate diagrams. 10 problems.
AREA	AREAQUADQ02	S5+	SD	Area of quadrilaterals from co-ordinate diagrams. 10 problems.
AREA	AREATR04	S5+	Open	Area of triangle: 4 quad. co-ordinate grid: shear : input area.
AREA	AREATR05	S5+	Open	Area of triangle: 4 quad. co-ordinate grid: surround: area given.
AREA	AREATR06	S5+	Open	Area of triangle: 4 quad. co-ordinate grid: surround: input area.
AREA	AREATR10	S5+	Open	Area of triangle: no grid: no rectangle: input area.
AREA	AREATR10R	S5+	Open	Area of triangle: no grid: rectangle: input areas.
AREA	AREATRIQ03	S5+	SD	Area of triangles from co-ordinate diagrams. 10 problems.
AREA	AREATRIQ04	S5+	SD	Area of triangles from co-ordinate diagrams. 10 problems.
AREA	AREATRIQ05	S5+	SD	Area of triangles from co-ordinate diagrams. 10 problems.
AREA	AREATT	S5+	OPEN	Area of triangles.
AREA	AREAC01	S6	OPEN	Interactive diagram: control lengths: total surface area given.
AREA	AREAC02	S6	OPEN	Interactive diagram: control lengths: input total surface area.
AREA	AREAC03	S6	OPEN	Interactive diagram: input total surface area: large numbers.
AREA	AREAC04	S6	OPEN	Interactive diagram: input total surface area: m2 to cm2.
AREA	AREAC05	S6	OPEN	Interactive diagram: input total surface area: cm2 to m2.
AREA	AREAF01	S6	OPEN	Surface area of faces of cuboids: interactive diagram: no scaling.
AREA	AREAQU2U1	S6	Open	Area of rectangle: active diagram: m2 to cm2.
AREA	AREAQU2U2	S6	Open	Area of rectangle: active diagram: m2 to cm2.
AREA	AREAQU2U3	S6	Open	Area of rectangle: active diagram: cm2 to m2.
AREA	PAREAS5	S6	SD	Area of compound shapes.
AREA	PAREAS6	S6	SD	Area of compound shapes.
AREA	PAREAS7	S6	SD	Area of compound shapes.
AREA	PAREAS8	S6	SD	Area of compound shapes.
AREA	VOLAR02	S6	OPEN	Interactive diagram: control lengths: gives total surface area and volume.
AREA	VOLAR02	S6	OPEN	Interactive diagram: control lengths: input total surface area and volume.
AREA	VOLAR03	S6	OPEN	Rescaling diagram: control lengths: input total surface area and volume.
AREA	VOLAR04	S6	OPEN	Rescaling diagram: input total surface area and volume: m from cm.
AREA	AREA2X	S6+	SD	Enlarge quadrilaterals and calculate areas: ZOOM diagrams.
AREA	AREAS1	S6+	OPEN	Surface area of cuboids.
AREA	AREAS2	S6+	OPEN	Outer surface area of open top tanks.
AREA	AREAS3	S6+	OPEN	Total surface area of open top tanks.
AREA	AREASP1	S6+	OPEN	Problem solving: cost of painting outer surface of open top tanks.
AREA	ENAR01T	S6+	SD	Enlarge shapes and calculate areas: 15 questions: ZOOM diagrams.

AREA	ENAR03T	S6+	SD	Fractional enlargement: calculate areas: 10 questions: ZOOM.
AREA	AREAGM	SX	OPEN	Approximating the area between parabola and $y = n$ between limits.
AREA	AREAGY0	SX	OPEN	Approximating the area between parabola and $y = 0$ between limits.
AVERAGE (MOVING)	MOVAVT	D7	SD	Completing moving average table of values.
AVERAGES	STATST3	D6	SD	Mean, mode and median: with frequency table.
AVERAGES	STATST5	D6	SD	Mean: calculated from frequency diagrams (discrete data).
AVERAGES	STATST6	D6	SD	Mean: estimated from frequency diagrams (continuous data) .
BOUNDS	BOUNSC01	D7	OPEN	Bounds: significance: class intervals: investigate.
BOUNDS	BOUNSC02	D7	OPEN	Bounds: significance: class intervals: both ends included.
BOUNDS	BOUNSC03	D7	OPEN	Bounds: significance: class intervals: upper end included.
BOUNDS	BOUNSC04	D7	OPEN	Bounds: significance: class intervals: lower end included.
BOUNDS	BOUNDAR01	N7	OPEN	Bounds: significance: area rectangle: active diagram
BOUNDS	BOUNDAR02	N7	OPEN	Bounds: significance: area triangle: active diagram
BOUNDS	BOUNDSUL	N7	OPEN	Bounds: upper and lower: significance.
BOUNDS	BOUNDTR01	N7	OPEN	Bounds: significance: hypotenuse right angled triangle: active diagram.
BOX&WHISKER	BOX01T	D7+	SD	Box and Whisker diagrams with 10 questions: Range & IQ Range.
BOX&WHISKER	BOX02T	D7+	SD	Box and Whisker diagrams with 10 questions: Range & Skew.
BOX&WHISKER	BOX03T	D7+	SD	Box and Whisker diagrams with 10 questions inc. outliers: Range & Skew.
BOX&WHISKER	BOX04T	D7+	SD	Box and Whisker diagrams with 10 questions inc. outliers: Range & Skew.
BOX&WHISKER	BOX05T	D7+	SD	Box and Whisker diagrams with 10 questions inc. outliers: Range & Skew.
BOX&WHISKER	BOX06T	D7+	SD	Box and Whisker diagrams with 10 questions inc. outliers: Range & Skew.
BOX&WHISKER	BOXMP005	D7+	OPEN	Enter 2 sets of data and box plots drawn to compare. Open tool. Min 5.
BOX&WHISKER	BOXMP005X	D7+	OPEN	Enter 2 sets of data and box plots drawn to compare. Open tool. Min 5. Outliers.
BOX&WHISKER	BOXMP010	D7+	OPEN	Enter 2 sets of data and box plots drawn to compare. Open tool. Min 10.
BOX&WHISKER	BOXMP010X	D7+	OPEN	Enter 2 sets of data and box plots drawn to compare. Open tool. Min 10. Outliers.
BOX&WHISKER	BOXMP050	D7+	OPEN	Enter 2 sets of data and box plots drawn to compare. Open tool. Min 50.
BOX&WHISKER	BOXMP050X	D7+	OPEN	Enter 2 sets of data and box plots drawn to compare. Open tool. Min 50. Outliers.
BOX&WHISKER	BOXMP100	D7+	OPEN	Enter 2 sets of data and box plots drawn to compare. Open tool. Min 100.
BOX&WHISKER	BOXMP100X	D7+	OPEN	Enter 2 sets of data and box plots drawn to compare. Open tool. Min 100. Outliers.
BOX&WHISKER	BOXMP150	D7+	OPEN	Enter 2 sets of data and box plots drawn to compare. Open tool. Min 150.
BOX&WHISKER	BOXMP150X	D7+	OPEN	Enter 2 sets of data and box plots drawn to compare. Open tool. Min 150. Outliers.
BOX&WHISKER	BOXPLOT1	D7+	OPEN	Enter data and box plot drawn and questions set. Open tool: skew.
BOX&WHISKER	BOXPLOT1X	D7+	OPEN	Enter data and box plot drawn and questions set. Open tool: skew. Outliers.
BOX&WHISKER	BOXPLOT2	D7+	OPEN	Enter data and box plot drawn and questions set. Open tool: IQR.
BOX&WHISKER	BOXPLOT2X	D7+	OPEN	Enter data and box plot drawn and questions set. Open tool: IQR. Outliers.
BOX&WHISKER	BOXPLOTMP0	D7+	OPEN	Enter data and box plot drawn.
BOX&WHISKER	BOXPLOTMP0X	D7+	OPEN	Enter data and box plot drawn. Outliers.
BOX&WHISKER	BOXPLOTMP1	D7+	OPEN	Enter data and box plot drawn and questions set. Open tool: IQR.
BOX&WHISKER	BOXPLOTMP1X	D7+	OPEN	Enter data and box plot drawn and questions set. Open tool: IQR. Outliers.
BOX&WHISKER	BOXPLOTMP2	D7+	OPEN	Enter 2 sets of data and box plots drawn to compare. Open tool. Min 0.
BOX&WHISKER	BOXPLOTMP200	D7+	OPEN	Enter 2 by up to 100 element of data and box plots drawn to compare. Min 0.
BOX&WHISKER	BOXPLOTMP200X	D7+	OPEN	Enter 2 by up to 100 element of data and box plots drawn to compare. Min 0.
BOX&WHISKER	BOXPLOTMP2X	D7+	OPEN	Enter 2 sets of data and box plots drawn to compare. Open tool. Min 0. Outliers.
BOX&WHISKER	BOXPLOTMP90	D7+	OPEN	Enter data and box plot drawn. Up to 90 elements of data.
BOX&WHISKER	BOXPLOTMP90X	D7+	OPEN	Enter data and box plot drawn. Up to 90 elements of data.
BOX&WHISKER	DATA13T	D7+	SD	Box and Whisker diagram
CAPACITY	MEASS08	S4+	OPEN	Volume in ml and l.
CAPACITY	MEASS09	S4+	OPEN	Volume in ml and l.
C-FREQUENCIES	CFDATA1	D7	SD	Cumulative frequency graph to median, quartiles and IQ range: %.
C-FREQUENCIES	CFDATA2	D7	SD	Cumulative frequency graph to median, quartiles and IQ range: %.
C-FREQUENCIES	CFDATA3	D7	SD	Cumulative frequency graph to median, quartiles and IQ range: %.
C-FREQUENCIES	CFDATA4	D7	SD	Cumulative frequency graph to median, quartiles and IQ range: %.
C-FREQUENCIES	CFDATA5	D7	SD	Cumulative frequency graph to median, quartiles and IQ range: %.
C-FREQUENCIES	CFDATA6	D7	SD	Cumulative frequency graph to median, quartiles and IQ range.
C-FREQUENCIES	CFDATA7	D7	SD	Cumulative frequency graph to median, quartiles and IQ range.
C-FREQUENCIES	CFDATA8	D7	SD	Cumulative frequency graph to median, quartiles and IQ range.
C-FREQUENCIES	CFDATA9	D7	SD	Cumulative frequency graph to median, quartiles and IQ range.
CHARTS	LGRAPHS1	D3	SD	Intro to line graphs.
CHARTS	LGRAPHS2	D3	SD	Intro. to bar line charts.
CHARTS	PICTS1	D3	SD	Pictograms: frequency.
CHARTS	TALLYS1	D3	SD	Tally chart: frequency.
CHARTS	GRAPHS1	D3+	OPEN	Intro. to bar graphs.
CHARTS	GRAPHS2	D3+	OPEN	Intro. to bar graphs.
CHARTS	GRAPHS3	D3+	OPEN	Intro. to bar graphs.
CHARTS	BARCHT01	D4	OPEN	Record and display class results as bar chart: set parameters.
CHARTS	BARCHT02	D4	OPEN	Record and display class results as 2 bar charts to compare: set parameters.
CHARTS	DICEDIF	D4	OPEN	Record and display class results: dice differences: probability.
CHARTS	DICESUM	D4	OPEN	Record and display class results: dice sums: probability.
CHARTS	DICEPROD	D5	OPEN	Record and display class results: dice products: probability.
CHARTS	PIEAA01	D5	SD	Pie charts: calculate angle from frequency, appropriate diagram.

CHARTS	PIEAA02	D5	SD	Pie charts: calculate angle from frequency, appropriate diagram.
CHARTS	PIEAA03	D5	SD	Pie charts: calculate angle from frequency, appropriate diagram.
CHARTS	PIEAA04	D5	SD	Pie charts: calculate angle from frequency, appropriate diagram.
CHARTS	PIEAA05	D5	SD	Pie charts: calculate angle from frequency, appropriate diagram.
CHARTS	PIEAA10	D5	OPEN	Pie charts: calculate angle from frequency, appropriate diagram.
CHARTS	PIEAFS01	D5	SD	Pie charts: calculate frequency from angle, appropriate diagram.
CHARTS	PIEAFS02	D5	SD	Pie charts: calculate frequency from angle, appropriate diagram.
CHARTS	PIEAFS03	D5	SD	Pie charts: calculate frequency from angle, appropriate diagram.
CHARTS	PIECHT01	D5	OPEN	Record and display class results as pie chart: set parameters.
CHARTS	PIECHT02	D5	OPEN	Record and display class results as two pie charts: set parameters.
CHARTS	PIEQA01	D5	OPEN	Pie charts: change frequencies; interactive diagram (IAD).
CHARTS	PIEQA02	D6	OPEN	Pie charts: change frequencies and radius; interactive diagram (IAD).
CHARTS	COMPIE01	D7	OPEN	Pie charts: area sensitive: set radius and increase sample by %(IAD).
CHARTS	COMPIE02	D7	OPEN	Pie charts: area sensitive: set radius and inc. sample by scale factor (IAD).
CHARTS	COMPIE03	D7	OPEN	Pie charts: area sensitive: set target sample size: inc. by scale factor (IAD).
CHARTS	COMPIE04	D7	OPEN	Pie charts: area sensitive: set target sample size: inc. by %(IAD).
CHARTS	PIEQA03	D7	OPEN	Pie charts: change frequencies, radius and inc.; interactive diagram (IAD).
CIRCLES	AREACIRC01	S5	OPEN	Calculating area of a circle, one square of radius: interactive diagram.
CIRCLES	AREACIRC02	S5	OPEN	Calculating area of a circles, three squares of radius: interactive diagram.
CIRCLES	CIRCC01	S5	OPEN	Calculating length of circumference: interactive diagram.
CIRCLES	CIRCLEA	S5	SD	Calculating area: information only.
CIRCLES	CIRCLEA2	S5	OPEN	Calculating area: calculate and enter.
CIRCLES	CIRCLEA3	S5	OPEN	Calculating radius and diameter from area.
CIRCLES	CIRCLEC	S5	SD	Calculating circumference: information only.
CIRCLES	CIRCLEC2	S5	OPEN	Calculating circumference: calculate and enter.
CIRCLES	CIRLEC3	S5	OPEN	Calculating radius and diameter from circumference.
CIRCLES	ARC01	S6	OPEN	Calculating lengths of arcs: interactive diagram.
CIRCLES	CIRCAP01	S6	OPEN	Calculating area taking away part of a circle: interactive diagram.
CIRCLES	CIRCAP02	S6	OPEN	Calculating areas of washers problem: interactive diagram.
CIRCLES	CONCIRC01	S6	OPEN	Calculating areas of annular rings: interactive diagram.
CIRCLES	CONCIRC02	S6	OPEN	Calculating areas of parts of annular rings: interactive diagram.
CIRCLES	SECTOR01	S6	OPEN	Calculating areas of sectors: interactive diagram.
CIRCLES	SECTOR02	S6	OPEN	Calculating perimeters of sectors: interactive diagram.
CIRCLES	CHORD01	SX	OPEN	Calculating lengths of chords: interactive diagram.
CIRCLES	EQCIRCLE	SX	OPEN	Explore equation of the circle, active graph.
CIRCLES	EQTANCIRC	SX	Open	Explore tangents to points on the circumference: active diagram.
CIRCLES	SECTOR03	SX	OPEN	Calculating areas of triangles in sectors: interactive diagram.
CIRCLES	SEG01	SX	OPEN	Calculating areas of segments: interactive diagram.
COMBINATIONS	FACTRL	DX	OPEN	Factorial tool. Evaluate 2! to 9!
COMBINATIONS	FACTRL02	DX	OPEN	Factorial tool. Factorial/Factorial.
COMBINATIONS	FACTRL03	DX	OPEN	Factorial tool. Factorial/Factorial. Factorial.
COMBINATIONS	FACTRLTL	DX	OPEN	Factorial tool. Evaluates 3 factorials and multiplier/3 factorials and multiplier.
COMBINATIONS	FACTRLTLQ	DX	OPEN	As above but value not supplied. Evaluate.
COMBINATIONS	PERMUT01	DX	OPEN	Explore permutations.
COMBINATIONS	PERMUT02	DX	OPEN	Explore permutations.
COMBINATIONS	PERMUT03	DX	OPEN	Explore permutations.
COMBINATIONS	FACTRLTL2	DX	OPEN	Factorial and addition tool.
COMBINATIONS	PERMUTQ301	DX	OPEN	Explore permutations: how many odd numbers.
COMBINATIONS	PERMUTQ302	DX	OPEN	Explore permutations: evens and odds.
COMBINATIONS	PERMUTQ401	DX	OPEN	Explore permutations: letters with repeats.
COMBINATIONS	PERMUTQ402	DX	OPEN	Explore permutations with repeats.
COMBINATIONS	PERMUTQ501	DX	OPEN	Explore permutations with multiple repeats.
COMBINATIONS	PERMUTQ502	DX	OPEN	Explore permutations with multiple repeats.
COMBINATIONS	PERMUTQ601	DX	OPEN	Explore permutations: number of arrangements of subsets.
COMBINATIONS	COMBIN01	DX	OPEN	Explore combinations.
COMBINATIONS	COMBINQ01	DX	OPEN	Combinations questions.
COMBINATIONS	COMBINQ02	DX	OPEN	Combinations questions.
COMBINATIONS	PERMUT04	DX	OPEN	Explore permutations.
COMBINATIONS	PERMUT05	DX	OPEN	Explore permutations without repeats.
COMBINATIONS	FACTRLTLQ01	DX	OPEN	Permutations questions.
COMBINATIONS	FACTRLTLQ0B	DX	OPEN	Permutations questions.
COMBINATIONS	FACTRLTLQ7	DX	OPEN	Permutations questions: repeat use allowed.
COMBINATIONS	FACTRLTLQ8	DX	OPEN	Permutations questions: repeat use allowed.
COMBINATIONS	FACTRLTLQ9	DX	OPEN	Permutations questions: repeat use allowed.
COMBINATIONS	FACTRLTLQ15	DX	OPEN	Written questions with comprehensive tool.
CO-ORDINATES	COORDPLOT	A4	OPEN	Cartesian co-ordinates, point plotter 4 quadrants: decimal allowed.
CO-ORDINATES	COORDS1	A4	SD	Cartesian co-ordinates.
CO-ORDINATES	COORDS4Q	A4	OPEN	Cartesian co-ordinates, point plotter 4 quadrants: hide input option.
CO-ORDINATES	COORDQ2	A5	SD	Complete the square: 2 adjacent vertices supplied: find others.
CO-ORDINATES	COORDQ3	A5	SD	Complete the square: 2 vertices supplied: find others.

CO-ORDINATES	COORDQ4	A5	SD	Complete the parallelogram: 3 vertices supplied: find others.
CO-ORDINATES	COORDT	A5	SD	Find possible 3rd vertices of isosceles triangle.
CO-ORDINATES	COORDT1	A5	SD	Complete the isosceles triangle: 1 side given: find other vertices.
CO-ORDINATES	COORDT2	A5	SD	Complete the isosceles triangle: 1 side given: find other vertices.
CO-ORDINATES	COORDLL	A5+	OPEN	Four points in line: $ax + by = c$
CO-ORDINATES	COORDL1	A6	SD	Line given: find 4 points and equation.
CO-ORDINATES	COORDL2	A6	SD	Line given: find 4 points and equation.
CO-ORDINATES	COORDL3	A6	SD	Line given: find 4 points and equation.
CO-ORDINATES	COORDL4	A6	SD	Line given: find 4 points and equation.
CO-ORDINATES	COORDL5	A6	SD	Line given: find 4 points and equation.
CO-ORDINATES	COORDLS1	A6	SD	$x+y=6$ given: plot 4 suitable points.
CO-ORDINATES	COORDLS1Y	A6	SD	$y=x$ given: plot 4 suitable points.
CO-ORDINATES	COORDLS2	A6	SD	$2x+y=8$ given: plot 4 suitable points.
CO-ORDINATES	COORDLS2Y	A6	SD	$y=x+4$ given: plot 4 suitable points.
CO-ORDINATES	COORDLS3	A6	SD	$x+2y=4$ given: plot 4 suitable points.
CO-ORDINATES	COORDLS3Y	A6	SD	$y=2x$ given: plot 4 suitable points.
CO-ORDINATES	COORDLS4	A6	SD	$x+y=0$ given: plot 4 suitable points.
CO-ORDINATES	COORDLS4Y	A6	SD	$y=2x-4$ given: plot 4 suitable points.
CO-ORDINATES	COORDLS5	A6	SD	$x-2y=6$ given: plot 4 suitable points.
CO-ORDINATES	COORDLS5Y	A6	SD	$y=-2x$ given: plot 4 suitable points.
CO-ORDINATES	COORDLS6	A6	SD	$-2x+y=8$ given: plot 4 suitable points.
CO-ORDINATES	COORDLS6Y	A6	SD	$y=-2x-3$ given: plot 4 suitable points.
CO-ORDINATES	COORDLS7	A6	SD	$3x+y=-5$ given: plot 4 suitable points.
CO-ORDINATES	COORDLS7Y	A6	SD	$y=-3x-2$ given: plot 4 suitable points.
CO-ORDINATES	COORDLS8Y	A6	SD	$y=4x-5$ given: plot 4 suitable points.
CO-ORDINATES	COORDLSY	A6+	OPEN	Four points in line: $y = mx + c$
CO-ORDINATES	COORDP4	A6+	OPEN	Plots 4 points from input co-ordinates: 4 quadrants.
CO-ORDINATES	COORDSLT01	A6	SD	$x - y = 0$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLT02	A6	SD	$x + y = 0$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLT03	A6	SD	$x + y = 5$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLT04	A6	SD	$y - x = 4$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLT05	A6	SD	$x - y = 4$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLT06	A6	SD	$2x + y = 0$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLT07	A6	SD	$2x - y = 0$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLT08	A6	SD	$2x - y = 6$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLT09	A6	SD	$2x + y = 6$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLT10	A6	SD	$10 = 2x - y$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLT11	A6	SD	$x + 2y = 0$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLT12	A6	SD	$x - 2y = 0$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLT13	A6	SD	$x + 2y = 6$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLT14	A6	SD	$x - 2y = 8$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLT15	A6	SD	$y + 2x = 5$ given: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDSLTM	A6	OPEN	Open input: plot 4 suitable points and transpose equation to form $y =$.
CO-ORDINATES	COORDPL2	A8	SD	Plot 4 points on the line and find the equation of the parabola.
CO-ORDINATES	COORDPL3	A8	SD	Plot 4 points on the line and find the equation of the parabola.
CO-ORDINATES	COORDPL4	A8	SD	Plot 4 points on the line and find the equation of the parabola.
CO-ORDINATES	COORDPL5	A8	SD	Plot 4 points on the line and find the equation of the parabola.
CO-ORDINATES	COORDPL6	A8	SD	Plot 4 points on the line and find the equation of the parabola.
CO-ORDINATES	COORDPL7	A8	SD	Plot 4 points on the line and find the equation of the parabola.
CO-ORDINATES	COORDPL8	A8	SD	Plot 4 points on the line and find the equation of the parabola.
CO-ORDINATES	COORDPL9	A8	SD	Plot 4 points on the line and find the equation of the parabola.
CO-ORDINATES	COORDPL10	A8	SD	Plot 4 points on the line and find the equation of the parabola.
CO-ORDINATES	COORDPL11	A8	SD	Plot 4 points on the line and find the equation of the parabola.
CO-ORDINATES	COORDPL12	A8	SD	Plot 4 points on the line and find the equation of the parabola.
CO-ORDINATES	COORDPL13	A8	SD	Plot 4 points on the line and find the equation of the parabola.
CO-ORDINATES	COORDPL14	A8	SD	Plot 4 points on the line and find the equation of the parabola.
CO-ORDINATES	COORDPL15	A8	SD	Plot 4 points on the line and find the equation of the parabola.
CO-ORDINATES 3D	3DCOORD01	SX	SD	Enter coordinates of vertices of cuboid given A is at the Origin
CO-ORDINATES 3D	3DCOORD02	SX	SD	Enter coordinates of vertices of cuboid given A is at the Origin
CO-ORDINATES 3D	3DCOORD03	SX	SD	Enter coordinates of vertices of cuboid given A is at the Origin
CO-ORDINATES 3D	3DCOORD04	SX	SD	Enter coordinates of vertices of cuboid given A is at (2,2,2)
CO-ORDINATES 3D	3DCOORD05	SX	SD	Enter coordinates of vertices of cuboid given A is at (3,3,3)
CO-ORDINATES 3D	3DCOORD06	SX	SD	Enter coordinates of vertices of cuboid given A is at (1,1,1)
CO-ORDINATES 3D	3DCOORD07	SX	SD	Enter coordinates of vertices of cuboid given A is at (2,4,3)
CO-ORDINATES 3D	3DCOORD08	SX	SD	Enter coordinates of vertices of cuboid given A is at (2,3,4)
CO-ORDINATES 3D	3DCOORD09	SX	SD	Enter coordinates of vertices of cuboid given A is at (2,4,3)
COSINE	COSGRAF2	SX	OPEN	Cosine graphs: transforming: 2 variables.
COSINE	COSGRAF3	SX	OPEN	Cosine graphs: transforming: 3 variables.
DATA	QUARTL1T	D7	SD	Calculating Quartiles
DATA	QUARTL2T	D7	SD	Interquartile range

DATA	QUARTL3T	D8	SD	Calculating Quartiles
DATA	QUARTL4T	D8	SD	Interquartile range
DECIMALS	EPNLS5	N4	SD	Estimate position on line: decimal: active control.
DECIMALS	FRACDCS1	N4	SD	Decimal blue on bar to fraction: active indicator control.
DECIMALS	FRACDEC100	N5+	OPEN	Fractions to decimal form to 100 places. Explore recurring decimals.
DECIMALS	FRACDEC500	N5+	OPEN	Fractions to decimal form to 500 places. Explore recurring decimals.
DECIMALS	FRACSIM100	N5+	OPEN	Fractions simplified and decimal form to 100 places.
DIRECTION	CDIR01	S4	SD	Interactive compass direction diagram.
DIRECTION	ORIENS1	S4	SD	Points of the compass.
DIRECTION	ORIENS2	S4	SD	Compass directions.
DISTRIBUTION	BINOM01	DX		Binomial distribution. Pascal's triangle. Factorial.
DISTRIBUTION	BINOM02	DX		Binomial distribution. Pascal's triangle. Factorial.
DISTRIBUTION	BINOM03	DX		Binomial expansion with questions. Pascal's triangle. Factorial.
DISTRIBUTION	BINOM04	DX		Binomial expansion with questions. Pascal's triangle. Factorial.
DIVISIBILITY	DIVIST1	N3+	OPEN	Divisibility 2,5 and 10.
DIVISIBILITY	DIVIST2	N4+	OPEN	Divisibility 3,6 and 9.
DIVISIBILITY	DIVIST3	N4+	OPEN	Divisibility 2,4 and 8.
DIVISIBILITY	DIVIST4	N4+	OPEN	Divisibility 2,3,5,6,9 and 10.
DIVISION	DPS100	N4	SD	Explore factors through division using 100: active short division display.
DIVISION	DPS360	N4	SD	Explore factors through division using 360: active short division display.
DIVISION	DPS60	N4	SD	Explore factors through division using 60: active short division display.
DIVISION	DPS01	N4+	OPEN	Explore division using quotient: active short division display.
DIVISION	DDDS1	N5	SD	Division: more than one solution.
DIVISION	DDDS2	N5	SD	Division: more than one solution.
DIVISION	DDPRS1	N5	SD	Division: more than one solution.
DIVISION	SDIV4T1	N4+	OPEN	Short division with remainder, some automation.
DIVISION	SDIV4T2	N4+	OPEN	Short division with remainder, no automation.
DIVISION	DIVTAB1	N5	SD	Division table: integer with decimal quotient.
DIVISION	DIVTAB10	N5	SD	Division table: negatives.
DIVISION	DIVTAB2	N5	SD	Division table: integer with decimal quotient.
DIVISION	DIVTAB3	N5	SD	Division table: integer with decimal quotient.
DIVISION	DIVTAB4	N5	SD	Division table: integer with decimal quotient.
DIVISION	DIVTAB5	N5	SD	Division table: integer with decimal quotient.
DIVISION	DIVTAB6	N5	SD	Division table: includes 0.5.
DIVISION	DIVTAB7	N5	SD	Division table: decimal.
DIVISION	DIVTAB8	N5	SD	Division table: decimal.
DIVISION	DIVTAB9	N5	SD	Division table: negatives.
DIVISION	DDDT	N5+	OPEN	Division: more than one solution.
DIVISION	DDPRT	N5+	OPEN	Division: more than one solution.
DIVISION	DIVQD	N5+	SD	Introduce dividing by a decimal through observation.
DIVISION	DIVTABT	N5+	OPEN	Division table: open.
DIVISION	DTENHT	N5+	OPEN	Dividing by powers of ten.
DIVISION	DDIV	N6+	OPEN	Division with decimal fractions: strategy 1.
DIVISION	DIVD	N6+	OPEN	Division with decimal fractions: strategy 2.
DIVISION	DIVFRT	N6+	OPEN	Division with answer as mixed number.
ENLARGEMENT	ENL0	S6+	OPEN	Enlarge 'L': center and scale factor: active display.
ENLARGEMENT	ENLARGE	S6+	OPEN	Enlarge: center and scale factor: active display: decimal allowed.
ENLARGEMENT	ENLARGE1TF	S6+	SD	15 questions with interactive zoom: Fractional enlargements.
ENLARGEMENT	ENLARGE1TP	S6+	SD	15 questions with interactive zoom: positive enlargements.
ENLARGEMENT	ENLARGE2	S6+	OPEN	Enlarge: center and scale factor: active display: quadrilaterals.
ENLARGEMENT	ENLARGE2X	S6+	OPEN	Enlarge: center and scale factor: ZOOM: quadrilaterals.
ENLARGEMENT	ENLARGE3	S6+	OPEN	Enlarge: center and scale factor: active display: triangles.
ENLARGEMENT	ENLARGE3X	S6+	OPEN	Enlarge: center and scale factor: ZOOM: triangles.
ENLARGEMENT	ENLARGE1TM	S7+	SD	15 questions with interactive zoom: Mixture of enlargements.
ENLARGEMENT	ENLARGE1TN	S7+	SD	15 questions with interactive zoom: Negative enlargements.
EQUATIONS	ALGEB02T1	A5	SD	Letters for numbers: simple + and -: positive.
EQUATIONS	ALGEB02T2	A5	SD	Letters for numbers: simple + and -: some negative.
EQUATIONS	ALGEB02T3	A5	SD	Letters for numbers: simple x and ÷: some negative.
EQUATIONS	ALGEB02T4	A5	SD	Letters for numbers: simple x and ÷: some negative.
EQUATIONS	ALGEB02T5	A5	SD	Letters for numbers: using 4 operators.
EQUATIONS	MACHAMT1	A5+	OPEN	Create and solve equations using inverse machines: four operators.
EQUATIONS	MACHAMT2	A5+	OPEN	Create and solve equations using inverse machines: four operators.
EQUATIONS	MACHATT	A5+	OPEN	Create and solve equations using inverse machines: add and subtract.
EQUATIONS	MACHMDT	A5+	OPEN	Create and solve equations using inverse machines: multiply and divide.
EQUATIONS	MACHTRT1	A5+	OPEN	Machine: form simple equation, machine transposes: $y=x+c$
EQUATIONS	MACHTRT2	A5+	OPEN	Machine: form simple equation, machine transposes: $y=ax$
EQUATIONS	SOLVE16	A5+	OPEN	Create and solve equations of the form $x/b=y$
EQUATIONS	SOLVE17	A5+	OPEN	Create and solve equations of the form $ax/b=y$
EQUATIONS	STOP01	A5+	OPEN	Formula for finding the stopping distance of a car.
EQUATIONS	ALGEB39T1	A6	SD	Number pairs towards factorizing quadratics.

EQUATIONS	EXSOLT1	A6	SD	Expand brackets and solve.
EQUATIONS	EXSOLT2	A6	SD	Expand brackets and solve.
EQUATIONS	EXSOLT3	A6	SD	Expand brackets and solve.
EQUATIONS	EXSOLT4	A6	SD	Expand brackets and solve.
EQUATIONS	ALGEB39TT	A6+	OPEN	Number pairs towards factorizing quadratics.
EQUATIONS	MACHTRT3	A6+	OPEN	Machine: form simple equation, machine transposes: $y=ax+c$
EQUATIONS	SOLVE01	A6+	OPEN	Create and solve equations of the form $ax+b=y$
EQUATIONS	SOLVE02	A6+	OPEN	Create and solve equations of the form $ax-b=y$
EQUATIONS	SOLVE03	A6+	OPEN	Create and solve equations of the form $b-ax=y$
EQUATIONS	SOLVE18	A6+	OPEN	Create and solve equations of the form $b/x=y$
EQUATIONS	SOLVE19	A6+	OPEN	Create and solve equations of the form $b/ax=y$
EQUATIONS	SOLVE20	A6+	OPEN	Create and solve equations of the form x^2/y
EQUATIONS	SOLVE21	A6+	OPEN	Create and solve equations of the form $b/x^2=y$
EQUATIONS	MACHTFT1	A7+	OPEN	Create and solve equations using inverse machines: take from.
EQUATIONS	MACHTFT2	A7+	OPEN	Create and solve equations using inverse machines: take from.
EQUATIONS	SOLVE04	A7+	OPEN	Create and solve equations of the form $a(x+b)=y$
EQUATIONS	SOLVE05	A7+	OPEN	Create and solve equations of the form $a(x-b)=y$
EQUATIONS	SOLVE06	A7+	OPEN	Create and solve equations of the form $a(b-x)=y$
EQUATIONS	SOLVE07	A7+	OPEN	Create and solve equations of the form $ax^2=y$
EQUATIONS	SOLVE08	A7+	OPEN	Create and solve equations of the form $a+ax^2=y$
EQUATIONS	SOLVE09	A7+	OPEN	Create and solve equations of the form $b+ax^2=y$
EQUATIONS	SOLVE10	A7+	OPEN	Create and solve equations of the form $(b+x)^2=y$
EQUATIONS	SOLVE11	A7+	OPEN	Create and solve equations of the form $(x-b)^2=y$
EQUATIONS	SOLVE12	A7+	OPEN	Create and solve equations of the form $(b-x)^2=y$
EQUATIONS	SOLVE13	A7+	OPEN	Create and solve equations of the form $a(b+x)^2=y$
EQUATIONS	SOLVE14	A7+	OPEN	Create and solve equations of the form $a(x-b)^2=y$
EQUATIONS	SOLVE15	A7+	OPEN	Create and solve equations of the form $a(b-x)^2=y$
EQUATIONS	SOLVE22	A7+	OPEN	Create and solve equations of the form $ax^2/b=y$
EQUATIONS	SOLVE23	A7+	OPEN	Create and solve equations of the form $b/ax^2=y$
ESTFREQUENCY	EPROBT01	D5	SD	Estimating frequency from probability: fractions.
ESTFREQUENCY	EPROBT02	D5	SD	Estimating frequency from probability: decimals.
ESTFREQUENCY	EPROBT01T	D5+	OPEN	Estimating frequency from probability: fractions.
ESTFREQUENCY	EPROBT02T	D5+	OPEN	Estimating frequency from probability: decimals.
ESTIMATE	EPNLS1	N3	SD	Estimate position on line: integer: active control.
ESTIMATE	EPNLS2	N4	SD	Estimate position on line: integer: active control.
ESTIMATE	EPNLS3	N4	SD	Estimate position on line: integer: active control.
ESTIMATE	EPNLS4	N4	SD	Estimate position on line: integer: active control.
ESTIMATE	EPNLS5	N4	SD	Estimate position on line: decimal: active control.
ESTIMATE	EPNLS6	N4	SD	Estimate position on line: negatives: active control.
ESTIMATE	EPNLS7	N4	SD	Estimate position on line: negatives: active control.
ESTIMATE	EPNLS8	N4	SD	Estimate position on line: negatives: active control.
ESTIMATE	EPNLT	N4+	OPEN	Estimate position on line: full control.
ESTIMATION	APPXDT	N5+	OPEN	Estimating by first rounding to 1.S.F. Dividing.
ESTIMATION	APPXMT	N5+	OPEN	Estimating by first rounding to 1.S.F. Multiplying
EXPANSION	ALGEB12T1	A5	SD	Expressions with variables: expand brackets.
EXPANSION	ALGEB12T2	A5	SD	Expressions with variables: expand brackets.
EXPANSION	ALGEB12T3	A6	SD	Expressions: expand brackets.
EXPANSION	ALGEB12T4	A6	SD	Expressions: expand brackets.
EXPANSION	ALGEB12T5	A6	SD	Expressions: expand brackets.
EXPONENTS	INDIC00T	N5	SD	Exponent notation.
EXPONENTS	INDIC02T	N6	SD	Operations with exponents.
EXPONENTS	INDIC03T10	N6	SD	Operations with negative exponents: multiplication with powers of 10.
EXPONENTS	INDIC03T10D	N6	SD	Operations with negative exponents: division with powers of 10.
EXPONENTS	INDIC03T2	N6	SD	Operations with negative exponents: multiplication with powers of 2.
EXPONENTS	INDIC03T2D	N6	SD	Operations with negative exponents: division with powers of 2.
EXPONENTS	INDIC03T5	N6	SD	Operations with negative exponents: multiplication with powers of 5.
EXPONENTS	INDIC03T5D	N6	SD	Operations with negative exponents: division with powers of 5.
EXPONENTS	INDIC03TR	N6	SD	Positive and negative exponents: looking back.
EXPONENTS	INDIC03TR2A	N6	SD	Positive and negative exponents: more than one solution.
EXPONENTS	INDIC03TR2B	N6	SD	Positive and negative exponents: more than one solution.
EXPONENTS	INDIC04GT	N6	SD	Algebraic: simplifying and evaluating: mixed exponents: mixed operations.
EXPONENTS	INDIC04TD	N6	SD	Simplifying and evaluating: mixed exponents: division.
EXPONENTS	INDIC04TM	N6	SD	Simplifying and evaluating: mixed exponents: multiplication.
EXPONENTS	INDIC03TDM	N6+	Open	Operations with negative exponents: division with powers of n.
EXPONENTS	INDIC03TMM	N6+	Open	Operations with negative exponents: multiplication with powers of n.
EXPONENTS	INDIC07T	N7	SD	Brackets and exponents.
EXPONENTS	INDIC08T	N7	SD	Exponents: mixed review.
EXPONENTS	INDIC09T	NX	SD	Fractional exponents.
EXPONENTS	INDIC10T	NX	SD	Explore decimal exponents.
EXPONENTS	POWS1	NX	OPEN	Raise to the power: exponent notation: many levels of use.

EXPONENTS	POWS2	NX	OPEN	Raise to the power: fractional exponents only: many levels of use.
EXPONENTS	INDIC01T	N6	SD	Operations with exponents.
EXPONENTS A	ASIMP1	A6+	OPEN	Algebra: multiplication with exponents.
EXPONENTS A	ASIMP2	A6+	OPEN	Algebra: division with exponents.
FACTORS	FTRST	N4	SD	Sets and number of factors.
FACTORS	FACTRN24	N5	SD	Factors as products of primes.
FACTORS	FACTRN360	N5	SD	Factors as products of primes.
FACTORS	FACTRN60	N5	SD	Factors as products of primes.
FACTORS	FACTRS24	N5	SD	Number of factors from products of primes.
FACTORS	FACTRS360	N5	SD	Number of factors from products of primes.
FACTORS	FACTRS60	N5	SD	Number of factors from products of primes.
FACTORS	VENNHCF01	N5	SD	HCF 8 and 12 using VENN diagram
FACTORS	VENNHCF02	N5	SD	HCF 12 and 30 using VENN diagram
FACTORS	VENNLCM01	N5	SD	LCM 8 and 12 using VENN diagram
FACTORS	VENNLCM02	N5	SD	LCM 12 and 30 using VENN diagram
FACTORS	FACTR128	N5+	OPEN	Finding sets of factors: integers 2 to 128: sets can be viewed.
FACTORS	FACTRPD3	N5+	OPEN	Sets of factors for integers up to 10 000 given.
FACTORS	FACTRPD4	N5+	OPEN	Sets of factors for integers up to 10 000 given. With product evaluator.
FACTORS	FACTRST	N5+	OPEN	Finding prime factors: integers 2 to 128 checked.
FACTORS	FACTRST2	N5+	OPEN	Finding prime factors: integers 2 to 128 checked: alternative layout.
FACTORS	FACTRPD	N6+	OPEN	Factors: extension: integers 2 to 128 checked: explore perfect numbers.
FORMULAE	FORMU01T	A7	SD	Suitable formulae: length and area.
FORMULAE	FORMU02T	A7	SD	Suitable formulae: area and volume.
FORMULAE	FORMU03T	A7	SD	Suitable formulae: length, area and volume.
FORMULAE	FORMU04T	A7	SD	Suitable formulae: length, area and volume.
FRACTIONS	FRACS1	N3	SD	Fourths with active indicator and equivalence.
FRACTIONS	FRACS3	N3	SD	Sixths with active indicator and equivalence.
FRACTIONS	FRACT	N3+	OPEN	Active indicator.
FRACTIONS	FRACDCS1	N4	SD	Decimal blue on bar to fraction: active indicator control.
FRACTIONS	FRACLN01T	N4	SD	Position of fractions on number lines: common.
FRACTIONS	FRACPCS1	N4	SD	Percent blue on bar to fraction: active indicator control.
FRACTIONS	FRACS2	N4	SD	Tenths with active indicator and equivalence.
FRACTIONS	FRACS4	N4	SD	Twelfths with active indicator and equivalence.
FRACTIONS	FRAC09T	N5	SD	Equivalent fractions: starting diagram.
FRACTIONS	FRAC101T	N5	SD	Investigate rectangles split into 4 fractions each with a numerator of 1.
FRACTIONS	FRAC10T	N5	SD	Equivalent fractions: equal division, common factors.
FRACTIONS	FRAC12T	N5	SD	Multiply whole number by fraction and simplify.
FRACTIONS	FRACAD0T	N5	SD	Adding fractions using equivalents with common denominators.
FRACTIONS	FRACD02T	N5	SD	Dividing an integer by a fraction.
FRACTIONS	FRACD02T2	N5	OPEN	Dividing an integer by a fraction.
FRACTIONS	FRACD03T	N5	SD	Dividing a fraction by an integer.
FRACTIONS	FRACLN03T	N5	SD	Position of fractions on number lines: common, improper and decimal.
FRACTIONS	FRACP01T	N5	SD	Changing fractions to percentages via equivalents with denominator 100.
FRACTIONS	PERCFT	N5	SD	Percent indicator with fraction as hundredths.
FRACTIONS	PERCFT2	N5	SD	Percent indicator with fraction: enter equivalence.
FRACTIONS	DECTOFAC	N5+	Open	Decimals to fractions: converts and gives simplest form.
FRACTIONS	DTFT	N5+	OPEN	Decimals to fractions: simplest form.
FRACTIONS	FRACDEC	N5+	Open	Decimals to fractions: check:
FRACTIONS	FRACSIM	N5+	Open	Simplifies fractions and gives decimal equivalent.
FRACTIONS	MYFRACTT1	N5	SD	Multiply whole number by fraction: integer solution.
FRACTIONS	MYFRACTT2	N5	SD	Multiply whole number by fraction: integer solution.
FRACTIONS	MYFRACTT3	N5	SD	Multiply whole number by fraction: integer solution.
FRACTIONS	MYFRACTT4	N5	SD	Multiply whole number by improper fraction: change to mixed number.
FRACTIONS	DVFRACTT1	N5	OPEN	Divide whole number by fraction using multiplication by inverse. Open.
FRACTIONS	DVFRACTT2	N5	OPEN	Divide whole number by fraction using multiplication by inverse. Open.
FRACTIONS	DVFRACTT3	N5	SD	Divide whole number by fraction using multiplication by inverse
FRACTIONS	DVFRACTT4	N5	SD	Divide whole number by fraction using multiplication by inverse
FRACTIONS	DVFRACTT5	N5	SD	Divide whole number by fraction using multiplication by inverse
FRACTIONS	DVFRACTT6	N5	SD	Divide whole number by fraction. Answer as mixed number.
FRACTIONS	MYFRACTT5	N6	SD	Multiply mixed number by fraction: change to mixed number.
FRACTIONS	MYFRACTT6	N6	SD	Multiply mixed number by mixed number: mixed number solution.
FRACTIONS	DVFRACTT7	N6	SD	Divide fraction by fraction: mixed number solution.
FRACTIONS	DVFRACTT8	N6	SD	Divide mixed number by fraction: mixed number solution.
FRACTIONS	DVFRACTT9	N6	SD	Divide mixed number by mixed number: mixed number solution.
FRACTIONS	FRACT13T	N6	SD	Multiply fraction by fraction and simplify.
FRACTIONS	FRACT14T	N6	SD	Multiply whole number by fraction and write as a mixed number.
FRACTIONS	FRACT15T	N6	SD	Divide fraction by fraction and simplify.
FRACTIONS	FRACT15T2	N6	OPEN	Divide fraction by fraction and simplify.
FRACTIONS	FRACT16T	N6	SD	Fractions to decimals.
FRACTIONS	FRACT17T	N6	SD	Decimals to fractions.

FRACTIONS	FRACT18T	N6	SD	Adding and taking fractions with common denominators.
FRACTIONS	FRACT19T	N6	SD	Adding and taking fractions with different denominators.
FRACTIONS	FRACT20T	N6	SD	Fractions to decimals to percent: equivalence.
FRACTIONS	DIVFRT	N6+	OPEN	Division with answer as mixed number.
FRACTIONS	FRACT21T	N7	SD	Rational numbers: decimals to fractions, terminating: intro recurring.
FRACTIONS	FRACT22T	N8	SD	Rational numbers: decimals to fractions, recurring.
FRACTIONS	FRACT23T	N8	SD	Rational numbers: exploring.
GAMES	WORDM01	N4	SD	Wordfinder: shape 1: quadrilaterals.
GAMES	WORDM02	N4	SD	Wordfinder: shape 2: polygons.
GAMES	WORDM03	N4	SD	Wordfinder: shape 3: circle words.
GAMES	WORDM04	N4	SD	Wordfinder: calculations 1: operations.
GAMES	WORDM05	N4	SD	Wordfinder: calculations 2: result.
GAMES	WORDM06	N4	SD	Wordfinder: number 1.
GAMES	WORDM07	N4	SD	Wordfinder: number 2:
GAMES	WORDM08	N4	SD	Wordfinder: number 3.
GAMES	WORDM09	N4	SD	Wordfinder: number 4.
GAMES	BATTLE01	S3	SD	Near to traditional battleships against the computer.
GAMES	BATTLE01B	S3	SD	Near to traditional battleships against the computer.
GAMES	BATTLE01C	S3	SD	Near to traditional battleships against the computer.
GAMES	BATTLE01D	S3	SD	Near to traditional battleships against the computer.
GAMES	BATTLE01E	S3	SD	Near to traditional battleships against the computer.
GRAPHSA	GRAPHPLOT1	A6+	OPEN	Plot $y = ax + c$: 4 quadrants: plot point on line: decimal allowed.
GRAPHSA	LINEAR0T	A6+	SD	Find equations of lines using slope and intercept: slope indicator.
GRAPHSA	LINEAR1T	A6+	SD	Find equations of lines given and explore.
GRAPHSA	LINEAR2T	A6+	SD	Find equations of lines given and explore.
GRAPHSA	LINGRAF1	A6+	OPEN	Introduce $y = ax + c$: 1st quadrant: active graph.
GRAPHSA	LINGRAF2	A6+	OPEN	Introduce $y = ax + c$: 1st & 4th quadrants: active graph.
GRAPHSA	LINGRAF3	A6+	OPEN	Introduce $y = ax + c$: 4 quadrants: active graph.
GRAPHSA	GRAPHPLOT2	A7+	OPEN	Introduce $y = ax^2 + c$: plot point on line.
GRAPHSA	GRAPHPLOT3	A7+	OPEN	Introduce $y = ax^2 + bx + c$: plot point on line.
GRAPHSA	LINGRAF4	A7+	OPEN	Introduce $y = ax + c$: 4 quadrants: intersection with $y = x$: active graph.
GRAPHSA	LINGRAF5	A7+	OPEN	Introduce $y = ax + c$: 4 quadrants: intersection with $y = mx + n$: active graph.
GRAPHSA	PARAB1T	A7+	SD	Find equations of lines given and explore.
GRAPHSA	PARAB2T	A7+	SD	Find equations of lines given and explore.
GRAPHSA	GRAF11	A8+	OPEN	$y = a/x$: explore.
GRAPHSA	GRAF11B	A8+	OPEN	$y = a/x + c$: explore.
GRAPHSA	GRAF11C	A8+	OPEN	$y = a/x + bx + c$: explore.
GRAPHSA	GRAF11D	A8+	OPEN	$y = a/nx + bx + c$: explore.
GRAPHSA	GRAF11E	A8+	OPEN	$y = a/(x+n)$: explore.
GRAPHSA	GRAF12	A8+	OPEN	$y = a/x^n$: explore.
GRAPHSA	GRAF12B	A8+	OPEN	$y = a/x^n + c$: explore.
GRAPHSA	GRAF12C	A8+	OPEN	$y = a/x^n + bx + c$: explore.
GRAPHSA	POLYGRAF	A8+	OPEN	$y = ax^2$, $y = k$: give intersection to solve quadratic
GRAPHSA	POLYGRAF1	A8+	OPEN	$y = ax^2 + c$, $y = k$: give intersection to solve quadratic
GRAPHSA	POLYGRAF2	A8+	OPEN	$y = ax^2 + c$, $y = mx + k$: give intersection to solve quadratic
GRAPHSA	POLYGRAF3	A8+	OPEN	$y = ax^2 + bx + c$: explore: $y = (x+?)^2$.
GRAPHSA	POLYGRAF4	A8+	OPEN	$y = ax^2 + bx + c$, $y = mx + k$: give intersection to solve quadratic: with table.
GRAPHSA	POLYGRAF4S	A8+	OPEN	$y = ax^2 + bx + c$, $y = mx + k$: give intersection to solve quadratic: no table.
GRAPHSA	POLYGRAF5	A8+	OPEN	$y = axn + bx + c$: explore.
GRAPHSA	POLYGRAF6	A8+	OPEN	$y = a(x+b)n + c$: explore.
GRAPHSA	POLYGRAF7	A8+	OPEN	$y = ax^2 + bx + c$: tangent given.
GRAPHSA	POLYGRAF8	A8+	OPEN	$y = ax^2 + bx + c$: calculate tangent.
GRAPHSA	GRAF14S	AX	OPEN	$y = ax^2 + bx + c$: compare with 8 transformations, 1 variable.
GRAPHSA	GRAF14VS	AX	OPEN	$y = ax^2 + bx + c$: compare with 8 transformations, 1 variable: find vertex.
GRAPHSA	GRAF14VX	AX	OPEN	$y = ax^2 + bx + c$: compare with 8 transformations, 1 variable: find vertex.
GRAPHSA	GRAF15VS	AX	OPEN	$y = a(x+b)^2 + c$: compare with 8 transformations, 1 variable: find vertex.
GRAPHSA	GRAF16	AX	OPEN	$y = ax^n + bx + c$: compare with 8 transformations, 1 variable.
GRAPHSA	GRAFDISC	AX	OPEN	Parabolas: discriminant.
GRAPHSA	GRAFSP	AX	OPEN	Parabolas: stationary points.
GRAPHSA	MFUNC01	AX	OPEN	Active equations and lines. Using indices, positive and negative input. 15 Q.
GRAPHSA	MFUNC02	AX	OPEN	Active equations and lines. Using indices, positive and negative input. 15 Q.
GRAPHSA	MFUNC03	AX	OPEN	Active equations and lines. Using indices, positive and negative input. 15 Q.
GRAPHSA	POLYGRAF9	AX	OPEN	$y = a(x+b)^n + c$: compare with 8 transformations, 1 variable.
GRAPHSA	POLYGRAF10	AX	OPEN	$y = a(x+b)^n + c$: compare with 8 transformations, 2 variables.
GRAPHSA	POLYGRAF20	AX	OPEN	$y = ax^2 + bx + c$: Gradient using tangent and differentiation.
GRAPHSA	POLYGRAF21	AX	OPEN	$y = ax^n + bx + c$: Find slope using differentiation.
GRAPHSA	POLYGRAF22	AX	OPEN	$y = ax^n + bx + c$: Find slope and tangent using differentiation.
GRAPHSA	POLYGRAF23	AX	OPEN	$y = ax^n + bx + c$: Find tangent and slope of normal using differentiation.
GRAPHSA	GRAFMOD1	AX	OPEN	Modulus $y = ax^n + bx + c $: explore.
GRAPHSA	GRAFMOD2A	AX	OPEN	Modulus $y = a/x $: explore.

GRAPHSA	GRAFMOD2B	AX	OPEN	Modulus $y= a/x+c $: explore.
GRAPHSA	GRAFMOD2C	AX	OPEN	Modulus $y= a/x+bx+c $: explore.
GRAPHSA	GRAFMOD2D	AX	OPEN	Modulus $y= a/nx+bx+c $: explore.
GRAPHSA	GRAFMOD2E	AX	OPEN	Modulus $y = a/(x+n) $: explore.
GRAPHSA	GRAFMOD3A	AX	OPEN	Modulus $y= a/x^n $: explore.
GRAPHSA	GRAFMOD3B	AX	OPEN	Modulus $y= a/x^n+c $: explore.
GRAPHSA	GRAFMOD3C	AX	OPEN	Modulus $y= a/x^n+bx+c $: explore.
GRAPHSC	CONVGR01	S5+	OPEN	Conversion graph: pounds: kilograms.
GRAPHSC	CONVGR01R	S5+	OPEN	Conversion graph: pounds: kilograms : arithmetic prompt.
GRAPHSC	CONVGR02	S5+	OPEN	Conversion graph: miles: kilometers.
GRAPHSC	CONVGR02R	S5+	OPEN	Conversion graph: miles: kilometers : arithmetic prompt.
GRAPHSC	CONVGR03	S5+	OPEN	Conversion graph: ounces: grams.
GRAPHSC	CONVGR04	S5+	OPEN	Conversion graph: gallons: liters.
INEQUALITIES	COORDSP1	A7	SD	Satisfying inequalities: plot 6 points: $x > x < y <$ positive.
INEQUALITIES	COORDSP2	A7	SD	Satisfying inequalities: plot 6 points: $x > x < y <$ positive and negative.
INEQUALITIES	COORDSP3	A7	SD	Satisfying inequalities: plot 6 points: $x <= y >=$ positive and negative.
INEQUALITIES	COORDSP4	A7	SD	Satisfying inequalities: plot 6 points: $x <= y >=$ positive and negative.
INEQUALITIES	COORDSP5	A8	SD	Satisfying inequalities: plot 6 points: extension 1.
INEQUALITIES	COORDSP6	A8	SD	Satisfying inequalities: plot 6 points: extension 2.
INEQUALITIES	COORDSP7	A8	SD	Satisfying inequalities: plot 6 points: extension 3.
INEQUALITIES	BETNS1	N3	SD	Numbers between.
INEQUALITIES	INEQUG1	N3	SD	(>8)
INEQUALITIES	INEQUG2	N3	SD	(>-10)
INEQUALITIES	INEQUL1	N3	SD	(<10)
INEQUALITIES	INEQUL2	N3	SD	(<4)
INEQUALITIES	BETNT	N3+	OPEN	Numbers between: any.
INEQUALITIES	INEQT	N3+	OPEN	Less than: greater than.
INEQUALITIES	INEQUTG1	N3+	OPEN	(Open $>$)
INEQUALITIES	INEQUTL1	N3+	OPEN	(Open $<$)
INEQUALITIES	BETDS1	N4	SD	Numbers between: decimal.
INEQUALITIES	BETDS2	N4	SD	Numbers between: decimal.
INEQUALITIES	BETNS2	N4	SD	Numbers between: negative.
INEQUALITIES	INEQUG3	N4	SD	$(>=8)$
INEQUALITIES	INEQUG4	N4	SD	$(>=-8)$
INEQUALITIES	INEQUL3	N4	SD	$(<=15)$
INEQUALITIES	INEQUL4	N4	SD	$(<=2)$
INEQUALITIES	INEQUS5	N4	SD	$(18 < \text{numbers} < 31)$
INEQUALITIES	INEQUS6	N4	SD	$(-6 < \text{numbers} < 3)$
INEQUALITIES	INEQUS7	N4	SD	$(4 < \text{numbers} < 7, \text{ decimal})$
INEQUALITIES	INEQUS8	N4	SD	$(3 < \text{numbers} < 4, \text{ decimal})$.
INEQUALITIES	INEQUS9	N4	SD	$(1.5 < \text{numbers} < 2, \text{ decimal: 2 places})$.
INEQUALITIES	INEQUT3	N4+	OPEN	$(n < \text{numbers} < m)$
INEQUALITIES	INEQUT4	N4+	OPEN	$(n <= \text{numbers} < m)$
INEQUALITIES	INEQUT5	N4+	OPEN	$(n < \text{numbers} <= m)$
INEQUALITIES	INEQUT6	N4+	OPEN	$(n <= \text{numbers} <= m)$
INEQUALITIES	INEQUTG2	N4+	OPEN	(Open $>=$)
INEQUALITIES	INEQUTL2	N4+	OPEN	(Open $<=$)
INEQUALITIES	INEQUS10	N5	SD	$(-1 < \text{numbers} < 1, \text{ decimal: negatives})$.
INVESTIGATION	CASCADES1	N5	SD	Number puzzle.
LENGTH	MEASS01	S4+	OPEN	km and m.
LENGTH	MEASS03	S4+	OPEN	m and cm.
LENGTH	MEASS05	S5+	OPEN	m, cm and mm.
LENGTH	MEASS06	S5+	OPEN	m, cm and mm.
LENGTH	MEASS10	S5+	OPEN	m, cm and mm.
LOCI	LOCUS01	S7	SD	Active locus of point fixed distance from straight line.
LOCI	LOCUS02	S7	SD	Active locus of point on circumference of traveling wheel.
LOCI	LOCUS03	S7	SD	Active locus of the mid point of an engine connecting rod.
LOCI	LOCUS04	S7	SD	Active locus of a point a fixed distance from the sides of a square.
LOCI	LOCUS05	S7	OPEN	Active locus of a variable point on an engine connecting rod.
LOCI	LOCUS06	S7	OPEN	Active locus of a string held taut from two points, (ellipse).
LOGS	INDICLOG1	NX	SD	Logs as indices: explore notation and meaning.
LOGS	INDICLOG2	NX	SD	Explore $\log_{10}(y) = \log_{10}(10x)$.
LOGS	INDICLOG3	NX	SD	Given y, solve $y = 2x$ for x using logs, exposition.
LOGS	INDICLOG4	NX	SD	Given y, solve $y = 2x$ for x using logs: practice.
LOGS	INDICLOG5	NX	SD	Adding and subtracting logs: practice with various situations.
LOGS	LOG10X	NX	Open	Explore inverse using graph of $y = 10x$
LOGS	LOG2X	NX	Open	Explore inverse using graph of $y = 2x$
MACHINES	MACHT1	N3+	OPEN	Number machines: add and multiply.
MACHINES	MACHT2	N4+	OPEN	Double number machines: add and multiply.
MACHINES	MACHT3	N4+	OPEN	Double number machines: reverse order.

MACHINES	MACHT4	N4+	OPEN	Number machines: single inverse: add.
MACHINES	MACHT5	N4+	OPEN	Number machines: single inverse: multiply.
MACHINES	MACHT6	N5+	OPEN	Double number machines: inverse.
MACHINES	MACHXT1	A5+	OPEN	Algebraic: single: forming equations and co-ordinates.
MACHINES	MACHXT2	A5+	OPEN	Algebraic: double: forming equations and co-ordinates.
MASS	MEASS02	S4+	OPEN	g and kg.
MASS	MEASS04	S4+	OPEN	g and mg.
MASS	MEASS07	S5+	OPEN	g, cg and kg.
MATRICES	MAT1	SX	Open	Adding matrices.
MATRICES	MAT1T	SX	Open	Subtracting matrices.
MATRICES	MAT2	SX		Matrix product (1 by 2) by (2 by 2)
MATRICES	MAT2A	SX		Matrix product (2 by 2) by (2 by 1)
MATRICES	MAT2B	SX		Matrix product (2 by 2) by (2 by 2)
MATRICES	MAT2C	SX		Matrix product (3 by 2) by (2 by 2)
MATRICES	MAT3D	SX		Matrix product (2 by 2) by (2 by 2) producing identity: (inverse).
MATRICES	MAT3I	SX	Open	Effect of multiplying a 2 by 2 with the Identity matrix.
MATRICES	MAT3I2	SX	SD	Effect of multiplying a 2 by 2 by its inverse.
MATRICES	MAT3I3	SX	SD	Effect of multiplying a 2 by 2 by its inverse.
MATRICES	MAT3I4	SX	SD	Explore multiplying a 2 by 2 by its inverse: introduce determinant.
MATRICES	MAT5	SX	Open	Effect of 2 by 2 on unit square: active diagram.
MATRICES	MAT5C	SX	Open	Effect of 2 by 2 on rectangle: active diagram.
MATRICES	MAT5X	SX	Open	Effect of 2 by 2 on any quadrilateral: active diagram.
MATRICES	MATINV01	SX	Open	Effect of 2 by 2 on parallelogram: active diagram.
MATRICES	MATINV02	SX	Open	Effect of 2 by 2 on rectangle: active diagram.
MATRICES	MATINV03	SX	Open	Effect of 2 by 2 on triangle: active diagram.
MATRICES	MATINV04	SX	Open	Effect of 2 by 2 on right angled trapezoid: active diagram.
MATRICES	MATINV05	SX	Open	Effect of 2 by 2 on basic quadrilateral: active diagram.
MATRICES	MATINV10	SX	Open	Effect of 2 by 2 on any quadrilateral: active diagram.
MATRICES	TRANSFORM1	SX	Open	Explore multiplying by eight 2 by 2 transformation matrices.
MATRICES	TRANSFORM2	SX	Open	Transform unit square with 2 by 2 matrix.
MATRICES	TRANSFORM3	SX	Open	Transform unit square with 2 by 2 matrix: investigate area.
MEAN	MEANT	D4+	OPEN	Introducing mean.
MEASURE	SPEED01	S5	OPEN	Speedometer showing mph and km per hour: interactive.
MEASURE	SPEED02	S5	OPEN	Speedometer showing mph: input km per hour: interactive.
MEDIAN	MEDNS1	D4	SD	Introducing median
MIXED OPERATIONS	AMAS1	N4	SD	Addition and multiplication: more than one solution.
MIXED OPERATIONS	AMAS2	N4	SD	Addition and multiplication: more than one solution.
MIXED OPERATIONS	AMAS3	N4	SD	Addition and multiplication: more than one solution.
MIXED OPERATIONS	ASAS1	N4	SD	Addition and subtraction: more than one solution.
MIXED OPERATIONS	ASAS2	N4	SD	Addition and subtraction: more than one solution.
MIXED OPERATIONS	BYFS1	N4	SD	Use 2 and 10 to multiply and divide by five.
MIXED OPERATIONS	BYFS2	N4	SD	Use 2 and 10 to multiply and divide by five.
MIXED OPERATIONS	MDMS1	N4	SD	Multiplication and division: more than one solution.
MIXED OPERATIONS	MDMS2	N4	SD	Multiplication and division: more than one solution.
MIXED OPERATIONS	TARGET01	N4	SD	Set target number to make with data set: + - + -: double entry.
MIXED OPERATIONS	TARGET01B	N4	SD	Set target number to make with data set: + - + -: double entry.
MIXED OPERATIONS	AMAT	N4+	OPEN	Addition and multiplication: more than one solution.
MIXED OPERATIONS	AMAT2	N4+	OPEN	Addition and multiplication: more than one solution.
MIXED OPERATIONS	ASAT	N4+	OPEN	Addition and subtraction: more than one solution.
MIXED OPERATIONS	BYFST	N4+	OPEN	Use 2 and 10 to multiply and divide by five.
MIXED OPERATIONS	CHALT2MAX	N4+	OPEN	Number chain: make the largest with $a+b \times c-d \div e$: 2 players, 5 variables.
MIXED OPERATIONS	CHALT2MIN	N4+	OPEN	Number chain: make the smallest with $a+b \times c-d \div e$: 2 players, 5 variables.
MIXED OPERATIONS	CHALTMAX	N4+	OPEN	Number chain: make the largest with + and -: 2 players, 5 variables.
MIXED OPERATIONS	CHALTMIN	N4+	OPEN	Number chain: make the smallest with + and -: 2 players, 5 variables.
MIXED OPERATIONS	MDMT	N4+	OPEN	Multiplication and division: more than one solution.
MIXED OPERATIONS	AMAS4	N5	SD	Addition and multiplication: more than one solution.
MIXED OPERATIONS	AMAS5	N5	SD	Addition and multiplication: more than one solution.
MIXED OPERATIONS	MAKE01	N5	SD	Make largest or smallest with data set: $a+b \times c-d \div e$: double entry: integer.
MIXED OPERATIONS	MAKE02	N5	SD	Make largest or smallest with data set: $a+b \times c-d \div e$: double entry: integer.
MIXED OPERATIONS	MAKE03	N5	SD	Make largest or smallest with data set: $(a+b) \times (c-d) \div e$: double entry: integer.
MIXED OPERATIONS	MAKE04	N5	SD	Make largest or smallest with data set: $(a+b) \times (c-d) \div e$: double entry: integer.
MIXED OPERATIONS	MAKE05	N5	SD	Make largest or smallest with data set: $a+b \times c-d \div e$: double entry: decimal.
MIXED OPERATIONS	MAKE06	N5	SD	Make largest or smallest with data set: $a+b \times c-d \div e$: double entry: decimal.
MIXED OPERATIONS	MAKE07	N5	SD	Make largest or smallest with data set: $(a+b) \times (c-d) \div e$: double entry: decimal.
MIXED OPERATIONS	MAKE08	N5	SD	Make largest or smallest with data set: $(a+b) \times (c-d) \div e$: double entry: decimal.
MIXED OPERATIONS	MAKE09	N5	SD	Make largest or smallest with data set: $a+b \times (c-d) \div e$: double entry: integer.
MIXED OPERATIONS	MAKE10	N5	SD	Make largest or smallest with data set: $a+b \times (c-d) \div e$: double entry: integer.
MIXED OPERATIONS	MAKE11	N5	SD	Make largest or smallest with data set: $a+b \times (c-d) \div e$: double entry: decimal.
MIXED OPERATIONS	MAKE12	N5	SD	Make largest or smallest with data set: $a+b \times (c-d) \div e$: double entry: decimal.
MIXED OPERATIONS	MAKEIT01	N5	SD	Make largest or smallest with data set: $a+b \times c-d \div e$: single entry: integer.

MIXED OPERATIONS	MAKEIT02	N5	SD	Make largest or smallest with data set: $a+bx-c-d÷e$: single entry: decimal.
MIXED OPERATIONS	MAKEIT03	N5	SD	Make largest or smallest with data set: $a+bx(c-d)÷e$: single entry: integer.
MIXED OPERATIONS	MAKEIT04	N5	SD	Make largest or smallest with data set: $a+bx(c-d)÷e$: single entry: decimal.
MIXED OPERATIONS	MAKEIT05	N5	SD	Make largest or smallest with data set: $(a+b)xc-d÷e$: single entry: integer.
MIXED OPERATIONS	MAKEIT06	N5	SD	Make largest or smallest with data set: $(a+b)xc-d÷e$: single entry: decimal.
MIXED OPERATIONS	MAKEIT07	N5	SD	Make largest or smallest with data set: $(a+b)x(c-d)÷e$: single entry: integer.
MIXED OPERATIONS	MAKEIT08	N5	SD	Make largest or smallest with data set: $(a+b)x(c-d)÷e$: single entry: decimal.
MIXED OPERATIONS	OPSPUZ3BT	N5	OPEN	Make calculator puzzle: brackets: 3 operators: 4 numbers. Checks ahead.
MIXED OPERATIONS	OPSPUZ3T	N5	OPEN	Make calculator puzzle: 3 operators: 4 numbers. Checks possibility ahead.
MIXED OPERATIONS	OPSPUZ4T	N5	OPEN	Make calculator puzzle: 4 operators: 5 numbers. Checks possibility ahead.
MIXED OPERATIONS	TARGET02	N5	SD	Set target number to make with data set: $+ x + -$: double entry.
MIXED OPERATIONS	TARGET02B	N5	SD	Set target number to make with data set: $+ x + -$: double entry.
MIXED OPERATIONS	TARGET03	N5	SD	Set target number to make with data set: $+ x + x$: double entry.
MIXED OPERATIONS	TARGET03B	N5	SD	Set target number to make with data set: $+ x + x$: double entry.
MIXED OPERATIONS	TARGET04	N5	SD	Set target number to make with data set: $+ x - x$: double entry.
MIXED OPERATIONS	TARGET04B	N5	SD	Set target number to make with data set: $+ x - x$: double entry.
MIXED OPERATIONS	TARGET05	N5	SD	Set target number to make with data set: $+ x - ÷$: double entry.
MIXED OPERATIONS	TARGET05B	N5	SD	Set target number to make with data set: $+ x - ÷$: double entry.
MODE	MODES1	D4	SD	Introducing Mode.
MONEY	MONS1	N3	SD	Money: writing in two ways.
MONEY	MONPS2	N5	SD	Money problems: rounding from calculator display.
MONEY	MONRT	N5+	OPEN	Money: rounding from calculator display.
MULTIPLICATION	LMS3600	N4	SD	Find pairs of 2 digit numbers whose product is 3600.
MULTIPLICATION	MMMS1	N4	SD	Multiplication: more than one solution.
MULTIPLICATION	MMMS2	N4	SD	Multiplication: more than one solution.
MULTIPLICATION	MMMS3	N4	SD	Multiplication: more than one solution.
MULTIPLICATION	MMMS4	N4	SD	Multiplication: more than one solution.
MULTIPLICATION	MMMS5	N4	SD	Multiplication: more than one solution.
MULTIPLICATION	MULTABS1	N4	SD	Multiplication: table form.
MULTIPLICATION	MULTABS2	N4	SD	Multiplication: table form.
MULTIPLICATION	MULTABS3	N4	SD	Multiplication: table form.
MULTIPLICATION	LMULT	N4+	OPEN	Long Multiplication 2 by 2
MULTIPLICATION	LMULT2	N4+	OPEN	Long Multiplication 2 by 3
MULTIPLICATION	GMULT22	N4+	OPEN	Grid multiplication, 2 digit by 2 digit.
MULTIPLICATION	GMULT32	N4+	OPEN	Grid multiplication, 3 digit by 2 digit.
MULTIPLICATION	NAPROD	N5	OPEN	Napier's rods.
MULTIPLICATION	LGMULT22	N5	OPEN	Lattice grid, 2 digit by 2 digit.
MULTIPLICATION	LGMULT23	N5	OPEN	Lattice grid, 2 digit by 3 digit.
MULTIPLICATION	CALPUZT1	N4+	OPEN	Limited calculator: 2, 3, x, =.
MULTIPLICATION	CALPUZT2	N4+	OPEN	Limited calculator: 2, 5, x, =.
MULTIPLICATION	CALPUZT3	N4+	OPEN	Limited calculator: 3, 5, x, =.
MULTIPLICATION	CALPUZT4	N4+	OPEN	Limited calculator: 2, 3, 5, x, =.
MULTIPLICATION	CALPUZT5	N4+	OPEN	Limited calculator: 1, 2, 3, x, =.
MULTIPLICATION	LMS01	N4+	OPEN	Explore multiplication using product: active long multiplication display.
MULTIPLICATION	MMMT	N4+	OPEN	Multiplication: more than one solution.
MULTIPLICATION	MULTABT	N4+	OPEN	Multiplication: table form.
MULTIPLICATION	LMS3456	N5	SD	Find pair of 2 digit numbers whose product is 3456.
MULTIPLICATION	MMPR1	N5	SD	Multiplication: more than one solution.
MULTIPLICATION	LMULTD	N5+	OPEN	Decimal Long Multiplication 2 by 2. divide after working.
MULTIPLICATION	LMULTDM	N5+	OPEN	Decimal Long Multiplication 2 by 2: move after working.
MULTIPLICATION	DMD04	N5+	OPEN	Mental multiplication method machine.
MULTIPLICATION	DMULT	N5+	OPEN	Multiplication with decimals: strategy 1.
MULTIPLICATION	MMPRT	N5+	OPEN	Multiplication: more than one solution.
MULTIPLICATION	MULD	N5+	OPEN	Multiplication with decimals: strategy 2.
MULTIPLICATION	BTENHT	N4+	OPEN	Multiplying by powers of ten.
NETS	NETS2	S5	SD	Identify nets of solids.
NETS	NETS2C	S5	SD	Identify names of nets of solids.
NETS	NETSC1	S5	SD	Identify nets of cubes.
NOTATION	XIS01	A6+	OPEN	Think of a number: flow chart: algebraic explanation.
NOTATION	XIS02	A6+	OPEN	Think of a number: flow chart: algebraic explanation.
NOTATION	XIS03	A6+	OPEN	Think of a number: flow chart: algebraic explanation.
NOTATION	XIS04	A6+	OPEN	Think of a number: flow chart: algebraic explanation.
NOTATION	XIS05	A6+	OPEN	Think of a number: flow chart: algebraic explanation.
NUMBERS	NUMBS1	N3	SD	Naming numbers.
NUMBERS	NLINET	N3+	OPEN	Play with the number line.
ORDER	ORDS1	N3	SD	Sorting numbers: 2 digit.
ORDER	ORDS2	N3	SD	Sorting numbers: 3 digit.
ORDER	SORTS1	N3	SD	Sorting numbers: 1 and 2 digit.
ORDER	SORTS2	N3	SD	Sorting numbers: 1 and 2 digit.
ORDER	SORTS3	N3	SD	Sorting numbers: 3 and 4 digit.

ORDER	SORTT	N3+	OPEN	Sorting numbers: open.
ORDER	ORDS3	N4	SD	Sorting numbers: negative integers.
ORDER	ORDS4	N4	SD	Sorting numbers: decimal.
ORDER	SORTS4	N4	SD	Sorting numbers: decimal.
ORDER	SORTS5	N4	SD	Sorting numbers: negatives.
PEMDAS	PRIORITY	N5	SD	Explore reason for priority.
PEMDAS	PRIORITY2	N5	SD	2 2 2, four operators: explore.
PEMDAS	PRIORITY3	N5	SD	3 2 5, four operators: explore.
PEMDAS	PRIORITY4	N5	SD	4 5 2, four operators: explore.
PEMDAS	PRIORITY5	N5	SD	3 4 10, four operators: explore.
PEMDAS	PRIORITY6	N5	SD	5 0.2 0.5, four operators: explore.
PEMDAS	PRIORITY7	N5	SD	4 0.5 0.1, four operators: explore.
PEMDAS	PRIORITY8	N5+	OPEN	Any three numbers, four operators: explore.
PEMDAS	ALGEB7T1	A5	SD	Order of operations with numbers: 4 operators and brackets.
PEMDAS	ALGEB7T2	A5	SD	Order of operations with numbers: 4 operators, indices and brackets.
PEMDAS	ALGEB7T3	A5	SD	Order of operations with numbers: 4 operators and brackets.
PEMDAS	ALGEB7T4	A5	SD	Order of operations with numbers: 4 operators, indices and brackets.
PEMDAS	ALGEB8T1	A5	SD	Insert operators to make statements true.
PEMDAS	ALGEB8T2	A5	SD	Insert operators to make statements true.
PERCENT	FRACPCS1	N5	SD	Percent blue on bar to fraction: active indicator control.
PERCENT	PERCFT	N5	SD	Active indicator with fraction as hundredths.
PERCENT	PERCFT2	N5	SD	Active indicator with fraction: enter equivalence.
PERCENT	PERCRS1	N5	SD	Colored fractions of rectangle as percent.
PERCENT	PERCS1	N5	SD	Fractions to percent.
PERCENT	PERCS3	N5	SD	Percent to decimals: decimals to percent.
PERCENT	PERCS4	N5	SD	Percentage of: through finding 1% first.
PERCENT	PERCS5	N5	SD	Percentage of: through finding 1% first.
PERCENT	PERCIT	N5+	OPEN	Increase by a selected %: completing statements in any direction.
PERCENT	PERCIDT	N5+	OPEN	Decrease by a selected %: completing statements in any direction.
PERCENT	PERCS2	N5+	OPEN	Estimate percent blue on bar: active indicator control.
PERCENT	PERCT	N5+	OPEN	Active indicator.
PERCENT	PERCT2	N5+	OPEN	Percentage of: through finding 1% first.
PERCENT	VATMAN	N5+	OPEN	Set and apply sales tax: complete statements in any direction.
PERIMETER	PAREAS1	S4	SD	Perimeter and area: grid.
PERIMETER	PAREAS2	S5+	SD	Calculate missing sections of perimeters.
PLACE	PLACES1	N3	SD	Place value words.
PLACE	PLACT	N3+	OPEN	Place targets: using units to form the nearest number.
PLACE	NNLINE	N5+	OPEN	Number line in 10 parts: choose endpoints: find intermediate points.
PLACE	NNLINEMP	N5+	OPEN	Number line: choose endpoints: find mid-point.
PLACE	NNLINEP	N5+	OPEN	Number line: choose endpoints: find 4 intermediate points.
POSITION	DIRECS1	S3	SD	Position on a grid.
POWERS	SQCU02T	N5	SD	Squares of integers and decimals: compare.
POWERS	SQCU03T	N6	SD	Cubes of integers and decimals: compare.
POWERS	SQCU04T1	N6	SD	Square and root: integer.
POWERS	SQCU04T2	N6	SD	Square and root: decimal.
POWERS	SQCU04T3	N6	SD	Product of squares: mainly integer.
POWERS	SQCU04T4	N6	SD	Product of squares: mainly decimal.
PROBABILITY	PRBABS1	D4	SD	Probability on a number line.
PROBABILITY	PRBABS2	D5	SD	Probability on a number line.
PROBABILITY	PRBABS3	D5	SD	As a fraction: simple events with a single dice.
PROBABILITY	PRBAB06T1	D6	SD	Outcomes with 2 triangular spinners: properties of numbers.
PROBABILITY	PRBAB08T	D6	SD	Outcomes and Probability with 2 cubical dice: sum.
PROBABILITY	PRBAB08TB	D6	SD	Outcomes and Probability with 2 cubical dice: difference.
PROBABILITY	PRBAB09T	D6	SD	Probability with a hexagonal spinner: properties of numbers.
PROBABILITY	PRBAB09TB	D6	SD	Probability with 2 hexagonal spinners: properties of numbers.
PROBABILITY	PRBAB09TC	D6	SD	Probability with 2 hexagonal spinners: properties of numbers.
PROBABILITY	PRBAB10T	D6	SD	Probability with 2 hexagonal spinners: independent events.
PROBABILITY	PRBAB2TA	D6	SD	Probability trees with traffic lights: biased.
PROBABILITY	PRBAB2TB	D6	SD	Probability trees with health warning.
PROBABILITY	PRBABTA	D6	SD	Probability trees with coins: unbiased.
PROBABILITY	PRBABTB	D6	SD	Probability trees with coins: biased.
PROBABILITY	PRBABTC	D6	SD	Probability trees with coins: biased.
PROBABILITY	PRBAB12T	D8	SD	Probability of the event not happening: notation P(E').
PROBABILITY	PRBAB14T	D8	SD	Mutually exclusive events.
PROBABILITY	PRBAB15T1	DX	SD	Set Notation: Venn diagram.
PROBABILITY	PRBAB15T2	DX	SD	Set Notation: Venn diagram.
PROBABILITY	PRBAB15T3	DX	SD	Set Notation: Venn diagram.
PROBABILITY	PRBAB16T1	DX	SD	Set Notation: Venn diagram: 1 card from pack.
PROBABILITY	PRBAB16T2	DX	SD	Set Notation: Venn diagram: 1 card from pack.
PROBABILITY	PRBAB16T3	DX	SD	Set Notation: Venn diagram: 1 card from pack.

PROBABILITY	PRBAB17T1	DX	SD	Venn diagram: 2 cards.
PROBABILITY	PRBAB17T2	DX	SD	Venn diagram: 2 cards.
PROBABILITY	PRBAB17T3	DX	SD	Venn diagram: 3 cards.
PROBABILITY	PRBAB18TR1	DX	SD	Tree diagram: 2 cards.
PROBABILITY	PRBAB18TR2	DX	SD	Tree diagram: 2 cards.
PROBABILITY	PRBAB18TR3	DX	SD	Tree diagram: 2 cards.
PROBABILITY	PRBAB18T1	DX	SD	3 Subset Venn diagram: cards.
PROBABILITY	BINPROB01	DX	OPEN	Probability with coins. Binomial distribution. Pascal's triangle. Factorial.
PROBABILITY	BINPROB02	DX	SD	Probability, coins with questions. Binomial. Pascal's triangle. Factorial.
PROBLEMS	MNUMS01	N3	SD	Missing numbers: hundred squares.
PROBLEMS	MNUMS01B	N3	SD	Missing numbers: hundred squares.
PROBLEMS	PROBLMS1	N3	SD	Addition problem: using variables.
PROBLEMS	TWOANS1	N3	SD	Pairs of problems with the same solution: integer.
PROBLEMS	MNUMS01T	N3+	OPEN	Missing numbers: hundred squares.
PROBLEMS	MNUM02EA	N4	SD	Missing numbers: 8x8 squares.
PROBLEMS	MNUM02EB	N4	SD	Missing numbers: 8x8 squares.
PROBLEMS	MNUM02FA	N4	SD	Missing numbers: 5x5 squares.
PROBLEMS	MNUM02FB	N4	SD	Missing numbers: 5x5 squares.
PROBLEMS	MNUM02NA	N4	SD	Missing numbers: 9x9 squares.
PROBLEMS	MNUM02NB	N4	SD	Missing numbers: 9x9 squares.
PROBLEMS	MNUM02SA	N4	SD	Missing numbers: 6x6 squares.
PROBLEMS	MNUM02SB	N4	SD	Missing numbers: 6x6 squares.
PROBLEMS	MNUM02WA	N4	SD	Missing numbers: 7x7 squares.
PROBLEMS	MNUM02WB	N4	SD	Missing numbers: 7x7 squares.
PROBLEMS	MNUM03DA	N4	SD	Missing numbers: 12x12 squares.
PROBLEMS	MNUM03DB	N4	SD	Missing numbers: 12x12 squares.
PROBLEMS	PROBLMS2	N4	SD	Subtraction problem: using variables.
PROBLEMS	TWOANS2	N4	SD	Pairs of problems with the same solution: negatives.
PROBLEMS	MNUMS02E	N4+	OPEN	Missing numbers: 8x8 squares.
PROBLEMS	MNUMS02F	N4+	OPEN	Missing numbers: 5x5 squares.
PROBLEMS	MNUMS02N	N4+	OPEN	Missing numbers: 9x9 squares.
PROBLEMS	MNUMS02S	N4+	OPEN	Missing numbers: 6x6 squares.
PROBLEMS	MNUMS02W	N4+	OPEN	Missing numbers: 7x7 squares.
PROBLEMS	MNUMS03D	N4+	OPEN	Missing numbers: 12x12 squares.
PROBLEMS	TWOANS3	N5	SD	Pairs of problems with the same solution: decimal.
PROBLEMS	PARAAPS1	S5+	OPEN	Problem with area and perimeter.
PROBLEMS	BEAM01	N4+	OPEN	Balance the beam with distance and mass.
PROBLEMS	BEAM01Q	N4+	SD	Balance the beam with distance and mass. 10 single solution problems.
PROBLEMS	BEAM01QB	N4+	SD	Balance the beam with distance and mass. 10 single solution problems.
PROBLEMS	BEAM02Q	N4+	SD	Balance the beam with distance and mass. 10 smallest integer solution problems.
PROBLEMS	BEAM02QB	N4+	SD	Balance the beam with distance and mass. 10 smallest integer solution problems.
PROGRESSIONS	ARPROG01	AX	OPEN	Explore arithmetic progressions.
PROGRESSIONS	GEPROG01	AX	OPEN	Explore geometric progressions.
PROGRESSIONS	QUPROG01	AX	OPEN	Explore quadratic progressions.
PROPERTIES	SETNOT01	IGCSE	SD	Listing sets interpreting notation from a 2 subset Venn diagram.
PROPERTIES	SETNOT02	IGCSE	SD	Listing sets interpreting notation from a 2 subset Venn diagram.
PROPERTIES	SETNOT11	IGCSE	SD	Listing sets interpreting notation from a 3 subset Venn diagram.
PROPERTIES	SETNOT12	IGCSE	SD	Listing sets interpreting notation from a 3 subset Venn diagram.
PROPERTIES	SETNOT13	IGCSE	SD	Listing sets interpreting notation from a 3 subset Venn diagram.
PROPERTIES	VENN01SSB	IGCSE	SD	Venn diagram: positive integers, multiples of 2 and 3.
PROPERTIES	VENN02SSB	IGCSE	SD	Venn diagram: positive integers, multiples of 2 and 5.
PROPERTIES	VENN03SSB	IGCSE	SD	Venn diagram: positive integers, multiples of 6 and 14.
PROPERTIES	VENN04SSB	IGCSE	SD	Venn diagram: positive integers, multiples of 4 and 15.
PROPERTIES	VENN05SSB	IGCSE	SD	Venn diagram: positive integers >50 and <100, multiples of 4 and 6.
PROPERTIES	VENN06SSB	IGCSE	SD	Venn diagram: positive integers >50 and <100, multiples of 6 and 8.
PROPERTIES	VENN07SSB	IGCSE	SD	Venn diagram: positive integers >50 and <100, multiples of 6 and 10.
PROPERTIES	VENN08SSB	IGCSE	SD	Venn diagram: positive integers >50 and <100, multiples of 8 and 12.
PROPERTIES	VENN235SB	IGCSE	SD	Venn diagram: multiples of 2, 3 and 5.
PROPERTIES	VENN257SB	IGCSE	SD	Venn diagram: multiples of 2, 5 and 7.
PROPERTIES	VENN347SB	IGCSE	SD	Venn diagram: multiples of 3, 4 and 7.
PROPERTIES	VENN3SB2351	IGCSE	SD	Venn diagram: positive integers, multiples of 2, 3 and 5: one per region.
PROPERTIES	VENN3SB2352	IGCSE	SD	Venn diagram: positive integers, multiples of 2, 3 and 5: two per region.
PROPERTIES	VENN3SB3471	IGCSE	SD	Venn diagram: positive integers, multiples of 3, 4 and 7: one per region.
PROPERTIES	VENN3SB3472	IGCSE	SD	Venn diagram: positive integers, multiples of 3, 4 and 7: two per region.
PROPERTIES	VENN3SB5791	IGCSE	SD	Venn diagram: positive integers, multiples of 5, 7 and 9: one per region.
PROPERTIES	VENN3SB5792	IGCSE	SD	Venn diagram: positive integers, multiples of 5, 7 and 9: two per region.
PROPERTIES	VENNS1	N3	SD	Using Venn Diagrams: 2 digit and odd numbers.
PROPERTIES	VENNS2	N3	SD	Using Venn Diagrams: numbers >10 and <20.
PROPERTIES	VENNS3	N3	SD	Using Venn Diagrams: multiples of 3, even.
PROPERTIES	VENNS4	N3	SD	Using Venn Diagrams: multiples of 4, <25.

PROPERTIES	VENN01S	N4	SD	Venn diagram: positive integers, multiples of 2 and 3.
PROPERTIES	VENN02S	N4	SD	Venn diagram: positive integers, multiples of 2 and 5.
PROPERTIES	VENN03S	N4	SD	Venn diagram: positive integers, multiples of 6 and 14.
PROPERTIES	VENN04S	N4	SD	Venn diagram: positive integers, multiples of 4 and 15.
PROPERTIES	VENN05S	N4	SD	Venn diagram: positive integers >50 and <100, multiples of 4 and 6.
PROPERTIES	VENN06S	N4	SD	Venn diagram: positive integers >50 and <100, multiples of 6 and 8.
PROPERTIES	VENN07S	N4	SD	Venn diagram: positive integers >50 and <100, multiples of 6 and 10.
PROPERTIES	VENN08S	N4	SD	Venn diagram: positive integers >50 and <100, multiples of 8 and 12.
PROPERTIES	VENN235	N4	SD	Venn diagram: multiples of 2, 3 and 5.
PROPERTIES	VENN257	N4	SD	Venn diagram: multiples of 2, 5 and 7.
PROPERTIES	VENN347	N4	SD	Venn diagram: multiples of 3, 4 and 7.
PROPERTIES	VENN3N2351	N4	SD	Venn diagram: positive integers, multiples of 2, 3 and 5: one per region.
PROPERTIES	VENN3N2352	N4	SD	Venn diagram: positive integers, multiples of 2, 3 and 5: two per region.
PROPERTIES	VENN3N3471	N4	SD	Venn diagram: positive integers, multiples of 3, 4 and 7: one per region.
PROPERTIES	VENN3N3472	N4	SD	Venn diagram: positive integers, multiples of 3, 4 and 7: two per region.
PROPERTIES	VENN3N5791	N4	SD	Venn diagram: positive integers, multiples of 5, 7 and 9: one per region.
PROPERTIES	VENN3N5792	N4	SD	Venn diagram: positive integers, multiples of 5, 7 and 9: two per region.
PROPERTIES	VENN597	N4	SD	Venn diagram: multiples of 5, 9 and 7.
PROPERTIES	VENNF31	N4	SD	Venn diagram: place 1 to 15, factors of 6, 10 and 14.
PROPERTIES	VENNF32	N4	SD	Venn diagram: place 1 to 18, factors of 8, 12 and 18.
PROPERTIES	VENNS5	N4	SD	Using Venn Diagrams: multiples of 2 and 5.
PROPERTIES	VENNS6	N4	SD	Using Venn Diagrams: multiples of 2, factors of 18
PROPERTIES	VENNS7	N4	SD	Using Venn Diagrams: multiples of 3, factors of 15
PROPERTIES	VENNS8	N4	SD	Using Venn Diagrams: factors of 18, prime.
PROPERTIES	VENNS9	N4	SD	Using Venn Diagrams: square, factors of 16.
PROPERTIES	MFPFS	N5	SD	Picking numbers by properties: mixed.
PROPERTIES	MULTSS1	N5	SD	Picking numbers by properties: multiples.
PROPERTIES	VENNF33	N5	SD	Venn diagram: place 1 to 12, prime numbers, factors of 8 and 12.
PROPERTIES	VENNF34	N5	SD	Venn diagram: place 1 to 15, prime numbers, factors of 9 and 15.
PROPERTIES	VENNF35	N5	SD	Venn diagram: place 1 to 16, prime, square and triangular numbers.
PROPORTION	PROPN11T	NX	OPEN	Direct proportion.
PROPORTION	PROPN12T	NX	OPEN	Inverse proportion.
PROPORTION	PROPN13T	NX	OPEN	Direct proportion with square.
PROPORTION	PROPN14T	NX	OPEN	Direct proportion with cube.
PROPORTION	PROPN15T	NX	OPEN	Inverse proportion with square.
PUZZLES	PUZNMS1	N3	SD	Sum and difference: truth table.
PUZZLES	PUZNMS2	N3	SD	Sum and difference: truth table.
PUZZLES	PUZNMS3	N3	SD	Product and difference: truth table.
PUZZLES	PUZNMS4	N3	SD	Product and sum: truth table.
PUZZLES	PUZNWS1	N3	SD	Odd and even: truth table.
PUZZLES	PUZSQS1	N3	SD	Two by two hidden number addition puzzle.
PUZZLES	PUZSQS2	N3	SD	Two by two hidden number addition puzzle.
PUZZLES	STARS1	N3	SD	Magic star puzzle: sum.
PUZZLES	STARS2	N3	SD	Magic star puzzle: sum.
PUZZLES	TRIBYS2	N3	SD	Triangular puzzle: introduction.
PUZZLES	TRIBYS3	N3	SD	Triangular puzzle: using common factors.
PUZZLES	TRIBYS4	N3	SD	Triangular puzzle: larger numbers.
PUZZLES	TRIBYT	N3+	OPEN	Triangular puzzle.
PUZZLES	MAGICS	N4	SD	Introduce magic squares.
PUZZLES	MAGICS2	N4	SD	Two magic squares.
PUZZLES	MIDISUD1	N4	SD	Midi SU DOKU on 8 by 8 grid.
PUZZLES	MIDISUD2	N4	SD	Midi SU DOKU on 8 by 8 grid.
PUZZLES	MIDISUDT	N4	OPEN	8 by 8 midi SU DOKU all cells blank. Accepts and checks any data.
PUZZLES	MINISUD1	N4	SD	Mini SU DOKU on 4 by 4 grid.
PUZZLES	MINISUD2	N4	SD	Mini SU DOKU on 4 by 4 grid.
PUZZLES	MINISUD3	N4	SD	Mini SU DOKU on 4 by 4 grid.
PUZZLES	MINISUD4	N4	SD	Mini SU DOKU on 4 by 4 grid.
PUZZLES	MINISUD5	N4	SD	Mini SU DOKU on 4 by 4 grid.
PUZZLES	MINISUD6	N4	SD	Mini SU DOKU on 4 by 4 grid.
PUZZLES	MINISUDT	N4	OPEN	Mini SU DOKU all cells blank. Accepts and checks any data.
PUZZLES	PUZNMS5	N4	SD	Sum, product and difference: truth table.
PUZZLES	PUZNMS6	N4	SD	Sum, product, difference and quotient: truth table.
PUZZLES	PUZNMS7	N4	SD	Sum and multiple: truth table.
PUZZLES	PUZNMS8	N4	SD	Sum, product and multiple: truth table.
PUZZLES	PUZSQS3	N4	SD	Two by two hidden number addition puzzle.
PUZZLES	PUZSQS4	N4	SD	Three by three hidden number addition puzzle.
PUZZLES	PUZSQS5	N4	SD	Three by three hidden number addition puzzle.
PUZZLES	PUZSQS6	N4	SD	Three by three hidden number addition puzzle.
PUZZLES	SIXSUD1	N4	SD	Mini SU DOKU on 6 by 6 grid.
PUZZLES	SIXSUD2	N4	SD	Mini SU DOKU on 6 by 6 grid.

PUZZLES	SIXSUDT	N4	OPEN	6 by 6 mini SU DOKU all cells blank. Accepts and checks any data.
PUZZLES	STARS3	N4	SD	Magic star puzzle: sum.
PUZZLES	STARS4	N4	SD	Magic star puzzle: sum: some negatives.
PUZZLES	TRIBYS5	N4	SD	Triangular puzzle: with negatives.
PUZZLES	TRIPUZS1	N4	SD	Triangular addition puzzles.
PUZZLES	TRIPUZS2	N4	SD	Triangular difference puzzles.
PUZZLES	TRIPUZS3	N4	SD	Triangular multiplication puzzles.
PUZZLES	MAXISUD1	N5	SD	SU DOKU problem.
PUZZLES	MAXISUD2	N5	SD	SU DOKU problem.
PUZZLES	MAXISUDT	N5	OPEN	SU DOKU all cells blank. Accepts and checks any data.
PUZZLES	PUZSQS7	N5	SD	Three by three hidden number addition puzzle.
PUZZLES	PUZSQS8	N5	SD	Three by three hidden number addition puzzle.
PUZZLES	PUZSQS9	N5	SD	Three by three hidden number addition puzzle.
PUZZLES	TRIBYS1	N3	SD	Triangular puzzle: introduction.
PYTHAGORAS	AREAF02	S7	OPEN	Pythagoras: surface area right triangular prism: interactive diagram: no scaling.
PYTHAGORAS	AREAF02B	S7	OPEN	Pythagoras: surface area right triangular prism: interactive diagram: scaling
PYTHAGORAS	PYTHAG00T	S7	SD	Pythagoras: finding third side.
PYTHAGORAS	PYTHAG01T	S7	SD	Pythagoras: finding third side.
PYTHAGORAS	PYTHAG02T	S7	SD	Pythagoras: finding third side.
PYTHAGORAS	PYTHAG03T	S7	SD	Pythagoras: 2D problems.
PYTHAGORAS	PYTHAG04T	S7	SD	Pythagoras: 2D problems.
PYTHAGORAS	PYTHAG05T	S7	SD	Pythagoras: 2D problems.
PYTHAGORAS	PYTHAG06T	S7	SD	Pythagoras: 2D problems.
PYTHAGORAS	PYTHAGEX	S7	OPEN	Pythagoras with interactive triangle. Explore squares of sides.
PYTHAGORAS	PYTHAGEX2	S7	OPEN	Pythagoras with interactive triangle and squares. Explore squares of sides.
PYTHAGORAS	PYTHAG07T	S8	SD	Pythagoras: 3D problem.
PYTHAGORAS	PYTHAG08T	S8	SD	Pythagoras: 3D problem.
PYTHAGORAS	PYTHAG09T	S8	SD	Pythagoras: 3D problem.
PYTHAGORAS	PYTHAG10T	S8	SD	Pythagoras: 3D problem.
PYTHAGORAS	PYTHAGEX3	S8	OPEN	Pythagoras with interactive diagram. Explore algebraic relationship.
PYTHAGORAS	PYTHAGTS	SX	OPEN	Pythagoras with interactive diagram. Explore trigonometric relationship.
PYTHAGORAS	TRIANGLES2	SX	OPEN	Draw and identify type of triangle using Pythagoras.
QUADRATICS	SQDIF01T	A8	SD	Writing as difference of two squares.
QUADRATICS	SQSP01T	A8	SD	Preliminary practice evaluating roots from sum and product.
QUADRATICS	SQSP03T	A8	SD	Determine a,b and c for $ax^2+bx+c=0$ with transpose.
QUADRATICS	EQUAD01T	AX	SD	Solve quadratics using formula.
QUADRATICS	SQSP04T	AX	SD	Solve quadratics using sum and product of roots.
QUADRATICS	SQSP05T	AX	SD	Solve quadratics using sum and product of roots: transposition required.
RATIO	RATIOSF01	N5+	OPEN	Ratio: simplest form, 1:n, n:1, checks truth of inputs.
RATIO	RATIOT	N5+	OPEN	Active bar: set (hidden) and estimate ratios.
RATIO	RATIOSF09	N6	SD	Mixed units to ratios in simplest form: mixed questions.
RATIO	RATIOSF02A	N6+	OPEN	Mixed units to ratios in simplest form: cm mm.
RATIO	RATIOSF02B	N6+	OPEN	Mixed units to ratios in simplest form: km m.
RATIO	RATIOSF02C	N6+	OPEN	Mixed units to ratios in simplest form: m cm
RATIO	RATIOSF02D	N6+	OPEN	Mixed units to ratios in simplest form: kg g.
RATIO	RATIOSF02E	N6+	OPEN	Mixed units to ratios in simplest form: g mg.
RATIO	RATIOSF02F	N6+	OPEN	Mixed units to ratios in simplest form: m mm.
RATIO	RATIOSF02G	N6+	OPEN	Mixed units to ratios in simplest form: l cl.
RATIO	RATIOSF02H	N6+	OPEN	Mixed units to ratios in simplest form: l ml.
RATIO	RATIOSF02K	N6+	OPEN	Mixed units to ratios in simplest form: tonnes kg.
RATIO	RATIOSF03A	N6+	OPEN	Mixed units to ratios in simplest form: lb oz.
RATIO	RATIOSF03B	N6+	OPEN	Mixed units to ratios in simplest form: feet inches.
RATIO	RATIOSF03C	N6+	OPEN	Mixed units to ratios in simplest form: yards feet.
RATIO	RATIOSF03D	N6+	OPEN	Mixed units to ratios in simplest form: yards inches.
RATIO	RATIOSF03E	N6+	OPEN	Mixed units to ratios in simplest form: cwt lb.
RATIO	RATIOSF03F	N6+	OPEN	Mixed units to ratios in simplest form: tons cwt.
RATIO	RATIOSF04A	N6+	OPEN	Mixed units to ratios in simplest form: hrs min.
RATIO	RATIOSF04B	N6+	OPEN	Mixed units to ratios in simplest form: min sec.
RATIO	RATIOSF04C	N6+	OPEN	Mixed units to ratios in simplest form: hrs sec.
RATIO	RATIOSF04D	N6+	OPEN	Mixed units to ratios in simplest form: days hrs.
RATIO	RATIOSF06	S6+	OPEN	Maps: scales and distance.
RATIOS	RATIOSH01	S6	SD	Ratio and enlargement: diagrams: rectangle: linear: 1:2.
RATIOS	RATIOSH01T	S6	SD	Ratio and enlargement: diagrams: triangle: linear: 2:1
RATIOS	RATIOSH01X	S6	SD	Ratio and enlargement: diagrams: rectangle: linear: 2:5.
RATIOS	RATIOSH06	S6	SD	Ratio and enlargement: diagrams: cuboid: linear: 1:2.
RATIOS	RATIOSH06T	S6	SD	Ratio and enlargement: diagrams: prism: linear: 2:1
RATIO	WHEELS	S6+	OPEN	Three interactive meshed gear wheels. Explore.
RATIO	WHEELS2	S6+	OPEN	Four interactive meshed gear wheels, (2 int. on same axle). Explore.
RATIOS	RATIOSH02	S6+	OPEN	Ratio and enlargement: diagrams: rectangle: linear: 1:n.
RATIOS	RATIOSH02T	S6+	OPEN	Ratio and enlargement: diagrams: triangle: linear: n:1

RATIOS	RATIOSH02X	S6+	OPEN	Ratio and enlargement: diagrams: rectangle: linear: n:m.
RATIOS	RATIOSH03	S7	SD	Ratio and enlargement: diagrams: rectangle: linear and area: 1:2.
RATIOS	RATIOSH03T	S7	SD	Ratio and enlargement: diagrams: triangle: linear and area: 2:1
RATIOS	RATIOSH03X	S7	SD	Ratio and enlargement: diagrams: rectangle: linear and area: 2:5.
RATIOS	RATIOSH04	S7	SD	Ratio and enlargement: diagrams: rectangle: linear and area: 1:3.
RATIOS	RATIOSH04T	S7	SD	Ratio and enlargement: diagrams: triangle: linear and area: 5:1
RATIOS	RATIOSH05	S7	SD	Ratio and enlargement: diagrams: rectangle: linear and area +: 1:n.
RATIOS	RATIOSH05T	S7	SD	Ratio and enlargement: diagrams: triangle: linear and area +: n:1
RATIOS	RATIOSH07	S7	SD	Ratio and enlargement: diagrams: cuboid: linear: volume: 1:2.
RATIOS	RATIOSH07T	S7	SD	Ratio and enlargement: diagrams: prism: linear: volume: 1:2.
RATIOS	RATIOSH04X	S7+	OPEN	Ratio and enlargement: diagrams: rectangle: linear and area: n:m.
RATIOS	RATIOSH05X	S7+	OPEN	Ratio and enlargement: diagrams: rectangle: linear and area +: n:m.
RATIOS	RATIOSH08	S7+	OPEN	Ratio and enlargement: diagrams: cuboid: linear: volume: 1:n.
RATIOS	RATIOSH08T	S7+	OPEN	Ratio and enlargement: diagrams: prism: linear: volume: 1:n.
RATIOS	RATIOSH09	S7+	OPEN	Ratio and enlargement: diagrams: cuboid: linear: volume +: 1:n.
RATIOS	RATIOSH09T	S7+	OPEN	Ratio and enlargement: diagrams: prism: linear: volume +: 1:n.
RATIOS	RATIOSH09X	S7+	OPEN	Ratio and enlargement: diagrams: prism: linear: volume +: n:m.
RECIPROCAL	RECIPR	N6+	OPEN	Reciprocal: open tool: fraction and decimal.
RECTANGLES	PROPRECQA	N5	OPEN	Calculate angles, one given.
RECTANGLES	PROPRECQL	N8	OPEN	Calculate length of diagonals. Pythagoras.
RECTANGLES	PROPRECQA2	NX	OPEN	Calculate angles using appropriate method.
REFLECTION	REFL1	S6+	OPEN	Reflect 'L': lines parallel to axes: active display.
REFLECTION	REFLECT	S6+	OPEN	Reflect shape in lines parallel to axes: active display.
REFLECTION	REFLECT2	S6+	OPEN	Reflect quadrilaterals in lines parallel to axes: active display.
REFLECTION	REFLECT3	S6+	OPEN	Reflect triangles in lines parallel to axes: active display.
REFLECTION	REFLECT4	S6+	OPEN	Reflect quadrilaterals in $y = x$ and $y = -x$: active display.
REFLECTION	REFLECT5	S6+	OPEN	Reflect triangles in $y = x$ and $y = -x$: active display.
REFLECTION	REFLECT6	S6+	OPEN	Reflect quadrilaterals in $y = mx$: control position: active display.
REFLECTION	REFLECT7	S6+	OPEN	Reflect quadrilaterals in $y = mx$: control position and size: active display.
REFLECTION	REFLQT0	S6+	SD	15 questions: input line: active display and check: lines parallel to axes.
REFLECTION	REFLQT1	S6+	SD	15 questions: input line: active display and check: $y=mx$.
REFLECTION	REFLECT7M	SXX	OPEN	Reflect quadrilaterals in $y = mx$: explore matrix : active display.
ROTATION	ROTATOR	S4+	OPEN	Rotate chosen letter about given point: any angle.
ROTATION	ROTATE00	S6+	OPEN	Rotate diagram about the origin: any angle: active display.
ROTATION	ROTATE01	S6+	OPEN	Rotate diagram about the origin: any angle: automated 360 rotation.
ROTATION	ROTATE02	S6+	OPEN	Rotate diagram about any point: any angle: active display.
ROTATION	ROTATE03	S6+	OPEN	Rotate diagram about any point: any angle: automated 360 rotation.
ROTATION	ROTATE05	S6+	OPEN	Rotate rectangle about any point: any angle: automated 360 rotation.
ROTATION	ROTATE06	S6+	OPEN	Rotate chosen quadrilateral about any point: any angle.
ROTATION	ROTATE06X	S6+	OPEN	Rotate chosen quadrilateral about any point: select position: any angle.
ROTATION	ROTATE06Y	S6+	OPEN	Comprehensive quadrilateral rotating tool.
ROTATION	ROTATE07	S6+	OPEN	Rotate chosen triangle about any point: any angle.
ROTATION	ROTATE07X	S6+	OPEN	Rotate chosen triangle about any point: select position: any angle.
ROTATION	ROTATE07Y	S6+	OPEN	Comprehensive triangle rotating tool.
ROTATION	ROTATE09	S6+	OPEN	Rotate chosen polygon about given point: any angle.
ROTATION	ROTATE10	S6+	OPEN	Rotate chosen polygon about any point: any angle.
ROTATION	ROTATE10Y	S6+	OPEN	Rotate chosen polygon: any point: through any angle: comprehensive.
ROTATION	ROTATEM	S6+	OPEN	Rotate chosen letter about any point: any angle.
ROTATION	ROTEDETS	S6+	SD	15 questions: input center, angle and direction(+/-): active rotation.
ROTATION	ROTEDETS	S6+	SD	15 questions: input center, angle and direction (CW/AC): active rotation.
ROTATION	ROTL2	S6+	OPEN	Rotate 'L': -90,90,180, center: active display.
ROUNDING	ROUNDS1	N3	SD	Round to nearest 10.
ROUNDING	ROUNDS2	N4	SD	Round to nearest 100.
ROUNDING	ROUNDS3	N4	SD	Round to nearest 1000.
ROUNDING	ROUNDS10	N5	SD	Two places of decimals.
ROUNDING	ROUNDS4	N5	SD	Round to nearest 1.
ROUNDING	ROUNDS5	N5	SD	Round to nearest tenth.
ROUNDING	ROUNDS6	N5	SD	Place value.
ROUNDING	ROUNDS7	N5	SD	One significant figure.
ROUNDING	ROUNDS8	N5	SD	Two significant figures.
ROUNDING	ROUNDS9	N5	SD	One place of decimals.
ROUNDING	ROUND4	N5+	OPEN	One place of decimals.
ROUNDING	ROUND5	N5+	OPEN	Two places of decimals.
SCATTERGRAM	SCAT01	D6	SD	Intro. to properties of scattergrams: correlation.
SCATTERGRAM	SCAT02	D6	SD	Test knowledge of properties of scattergrams: correlation.
SCATTERGRAM	SCAT03	D6	SD	Intro. to properties of scattergrams: means of data values.
SCATTERGRAM	SCAT04	D6	SD	Intro. to properties of scattergrams: line of best fit.
SCATTERGRAM	SCAT05	D6	SD	Intro. to properties of scattergrams: multifunction diagram.
SCATTERGRAM	SCATT03C	D7	SD	Scattergrams: equation of line of best fit.
SCATTERGRAM	SCATT03D	D7	SD	Scattergrams: equation of line of best fit.

SCIENTIFIC NOTATION INDIC05T	N6	SD	From Scientific Notation.
SCIENTIFIC NOTATION INDIC06T	N6	SD	To Scientific Notation.
SCIENTIFIC NOTATION STFRDES	N7	SD	Estimating with Scientific Notation: division.
SCIENTIFIC NOTATION STFRMES	N7	SD	Estimating with Scientific Notation: multiplication.
SEQUENCES NTERMT1	A6	SD	Find expression for nth term of sequence: linear: first difference.
SEQUENCES NTERMT2	A7	SD	Find expression for nth term of sequence: quadratic: second difference.
SEQUENCES SEQFMS1	N2+	OPEN	Forming sequences: addition: from first term.
SEQUENCES SEQFMS2	N3+	OPEN	Forming sequences: addition: from any term.
SEQUENCES SEQFMS3	N3+	OPEN	Forming sequences: subtraction: from first term.
SEQUENCES SEQFMS4	N3+	OPEN	Finding missing terms: adding on: integer.
SEQUENCES SEQFMS5	N4+	OPEN	Forming sequences: subtraction: from any term.
SEQUENCES SEQFMS6	N4+	OPEN	Forming sequences: multiplication: from first term.
SEQUENCES SEQFMS7F	N4+	OPEN	Forming sequences: multiplication: from any term.
SEQUENCES SEQFMS7T	N4+	OPEN	Forming sequences: division by 5: from first term.
SEQUENCES SEQFMS8F	N4+	OPEN	Forming sequences: division by 2: from first term.
SEQUENCES SEQFMS8T	N4+	OPEN	Forming sequences: division by 5: from any term.
SEQUENCES SEQFMS9	N4+	OPEN	Forming sequences: division by 2: from any term.
SEQUENCES SEQMXS10	N4+	OPEN	Finding missing terms: multiplier: decimal.
SEQUENCES SEQMXS11	N4+	OPEN	Finding missing terms: multiplier: integer.
SEQUENCES SEQMXS12	N4+	OPEN	Finding missing terms: multiplier: decimal.
SEQUENCES SEQMXS2	N4+	OPEN	Finding missing terms: adding on: decimal.
SEQUENCES SEQMXS3	N4+	OPEN	Finding missing terms: adding on: integer.
SEQUENCES SEQMXS4	N4+	OPEN	Finding missing terms: adding on: decimal.
SEQUENCES SEQMXS5	N4+	OPEN	Finding missing terms: adding on: integer.
SEQUENCES SEQMXS6	N4+	OPEN	Finding missing terms: adding on: decimal.
SEQUENCES SEQMXS7	N4+	OPEN	Finding missing terms: multiplier: integer.
SEQUENCES SEQMXS8	N4+	OPEN	Finding missing terms: multiplier: decimal.
SEQUENCES SEQMXS9	N4+	OPEN	Finding missing terms: multiplier: integer.
SHAPE SCONT00	S4	SD	Recognizing Similarity.
SHAPE SHAPE1	S4	SD	Identify names of quadrilaterals.
SHAPE SHAPE2	S4	SD	Identify names of polygons.
SHAPE SHAPE3	S4	SD	Identify types of triangles.
SHAPE SHAPE4	S4	SD	Identify names of solids.
SHAPE SHAPES2	S4	SD	Matching similar shapes.
SHAPE 3D1	S5	SD	Active diagrams of some simple solids: twirl.
SHAPE QUADS1	S5	SD	Inserting quadrilateral names to make set of true relational statements.
SHAPE SHAPES6	S5	SD	Naming polygons using letters at vertices.
SHAPE SHAPEV01T	S5	SD	Sorting quadrilaterals by properties from shapes: Venn diagram.
SHAPE SHAPEV02T	S5	SD	Sorting quadrilaterals by properties using shape names: Venn diagram.
SHAPE SHAPEV03T	S5	SD	Sorting plane shapes by properties using diagrams: Venn diagram.
SHAPE SCONT01	S5+	SD	Recognizing Similarity and Congruence.
SHAPE SCONT02	S5+	SD	Recognizing Similarity and Congruence.
SHAPE TRIANGLES	S5+	OPEN	Draws triangles given 3 sides. Interactive diagram. Explore.
SHAPE SCONT10	S6+	SD	Congruence of triangles, four rules.
SHAPE SCONT11	S6+	SD	Congruence of triangles, four rules.
SHAPE TRIANGLES2	SX	OPEN	Draw triangles using side lengths and name type.
SIGNIFICANCE SFIGSS	N5+	OPEN	Gives significance of input.
SIGNIFICANCE SFIGST	N5+	OPEN	Checks significance of input.
SIMULTANEOUS SOLVEM00T	A7	SD	Three unknowns: three equations: addition.
SIMULTANEOUS SIMULT01	A7	SD	Solving simultaneous equations: subtract to evaluate variables.
SIMULTANEOUS SIMULT02	A7	SD	Solving simultaneous equations: subtract to evaluate variables.
SIMULTANEOUS SIMULT03	A7	SD	Solving simultaneous equations: subtract to evaluate variables.
SIMULTANEOUS SIMULT04	A7	SD	Solving simultaneous equations: subtract to evaluate variables.
SIMULTANEOUS SIMULT05	A7	SD	Solving simultaneous equations: subtract to evaluate variables.
SIMULTANEOUS SIMULT06	A7	SD	Solving simultaneous equations: subtract to evaluate variables.
SIMULTANEOUS SIMULT07	A8	SD	Solving simultaneous equations: subtract to evaluate variables.
SIMULTANEOUS SIMULT08	A8	SD	Solving simultaneous equations: subtract to evaluate variables.
SIMULTANEOUS SIMULT09	A8	SD	Solving simultaneous equations: subtract to evaluate variables.
SIMULTANEOUS SIMULT10	A8	SD	Solving simultaneous equations: subtract to evaluate variables.
SIMULTANEOUS SIMULT11	A8	SD	Solving simultaneous equations: scaling and subtraction using ratio.
SIMULTANEOUS SOLVEM01T	A8	SD	Five unknowns: five equations: addition.
SIMULTANEOUS SOLVEM02T	A8	SD	Five unknowns: five equations: multiplication.
SIMULTANEOUS SOLVEM03T	A8	SD	Four unknowns: four equations: multiplication and addition.
SIMULTANEOUS SOLVEM04T	A8	SD	Four unknowns: four equations: multiplication and addition.
SIMULTANEOUS SOLVEM05T	A8	SD	Four unknowns: four equations: addition.
SIMULTANEOUS SOLVEM06T	A8	SD	Four unknowns: four equations: addition.
SINE SINGRAF2	SX	OPEN	Sine graphs: transforming: 2 variables.
SINE SINGRAF3	SX	OPEN	Sine graphs: transforming: 3 variables.
SPACE SHAPP01	S4	SD	Complete squares from 1 side given. 10 questions. Active graphics.
SPACE QUADPKIT	S4+	OPEN	Checks properties to see if a kite

SPACE	QUADPPAT	S4+	OPEN	Checks properties to see if a parallelogram
SPACE	QUADPRECT	S4+	OPEN	Checks properties to see if a rectangle
SPACE	QUADPRHT	S4+	OPEN	Checks properties to see if a rhombus
SPACE	QUADRAW1	S4+	OPEN	Draws from input ABCD and shows AC and BD on completion.
SPACE	QUADRAW2	S4+	OPEN	Draws from input ABCD. Gives values of point of visible intersection.
SPACE	QUADRAW2A	S4+	OPEN	Draws from input ABCD shows intersection when convex. Input values.
SPACE	QUADRAW2X	S4+	OPEN	Draws from input ABCD shows intersection and values when convex..
SPACE	QUADRAW2XA	S4+	OPEN	Draws from input ABCD. Checks input values of point of intersection.
SPACE	QUADRAW3	S4+	OPEN	As QUADRAW1 with 4 quadrants.
SPACE	QUADRAW4	S4+	OPEN	As QUADRAW2 with 4 quadrants.
SPACE	SHAPP01Q	S5	SD	Complete squares. 10 questions. Active graphics. 4 quadrants.
SPACE	SHAPP02	S5	SD	Complete rectangles from 1 side and center given. 10 q. Active graphics.
SPACE	SHAPP03	S5	SD	Complete parallelograms from 1 side and center given. 10 q. Active graphics.
SPACE	SHAPP06	S5	SD	Complete quadrilaterals from 1 side given. 10 questions. Active graphics.
SPACE	SHAPP07	S6	SD	Complete quadrilaterals from 1 side given. 10 questions. Active graphics.
SPACE	BOXES01T	S6	SD	Fitting available space: boxes into boxes.
SPACE	BOXES02T	S6	SD	Fitting available space: boxes into boxes: more ways.
SPACE	BOXES03T	S6	SD	Using available space: boxes into boxes: space not used.
SPACE	ROT3D02	EXT	OPEN	Wireframe rotation about x, y and z axes. Cube.
SPACE	ROT3D03	EXT	OPEN	Wireframe rotation about x, y and z axes. Cuboid.
SPACE	ROT3D03SA	EXT	OPEN	Wireframe rotation. Cuboid. Surface area.
SPACE	ROT3D03V	EXT	OPEN	Wireframe rotation. Cuboid. Volume.
SPACE	ROT3D04	EXT	OPEN	Wireframe rotation about x, y and z axes. Triangular Prism.
SPACE	ROT3D04SA	EXT	OPEN	Wireframe rotation. Triangular Prism. Surface area.
SPACE	ROT3D04V	EXT	OPEN	Wireframe rotation. Triangular Prism. Volume.
SPACE	ROT3D05	EXT	OPEN	Wireframe rotation about x, y and z axes. Trapezoidal Prism.
SPACE	ROT3D05A	EXT	OPEN	Wireframe rotation. Trapezoidal Prism. Angle. Trig.
SPACE	ROT3D05SA	EXT	OPEN	Wireframe rotation. Trapezoidal Prism. Surface area. Pythag.
SPACE	ROT3D05V	EXT	OPEN	Wireframe rotation. Trapezoidal Prism. Volume.
SPACE	ROT3D06	EXT	OPEN	Wireframe rotation about x, y and z axes. Square based pyramid.
SPACE	ROT3D06EL	EXT	OPEN	Wireframe rotation. Square based pyramid. Edge length. Pythag.
SPACE	ROT3D06SA	EXT	OPEN	Wireframe rotation. Square based pyramid. Surface area. Pythag.
SPACE	ROT3D06SH	EXT	OPEN	Wireframe rotation. Square based pyramid. Slant height. Pythag.
SPACE	ROT3D06V	EXT	OPEN	Wireframe rotation. Square based pyramid. Volume.
SPACE	ROT3D07	EXT	OPEN	Wireframe rotation about x, y and z axes. Truncated square based pyramid.
SPACE	ROT3D07A	EXT	OPEN	Wireframe rotation. Truncated square based pyramid. Angle. Trig.
SPACE	ROT3D07SA	EXT	OPEN	Wireframe rotation. Truncated square based pyramid. Surface area. Pythag.
SPACE	ROT3D07V	EXT	OPEN	Wireframe rotation. Truncated square based pyramid. Volume.
SPACE	ROT3D08	EXT	OPEN	Wireframe rotation. Truncated rectangular based pyramid.
SPACE	VIEWSM01	S6	SD	Wireframe rotation. 15 solids. Front, plan and end elevations.
SPACE	VIEWSM02	S6	SD	Wireframe rotation. 6 two part solids. Front, plan and end elevations.
SPACE	VIEWSM03	S6	SD	Wireframe rotation. 10 prisms. Front, plan and end elevations.
SPACE	IEWS01	EXT	OPEN	Wireframe rotation. Trapezoidal Prism. Front, plan and end elevations.
SPACE	IEWS02	EXT	OPEN	Wireframe rotation. Truncated square based pyramid. Front, plan and end elevations.
SQUARE	SQCUS1	N5	SD	Squares and roots.
SQUARE	SQCUS2	N5	SD	Squares and roots.
SQUARE	SQCUT	N5+	OPEN	Squares and roots.
SQUARE	SQNU1	N5+	OPEN	Square a number: index notation.
SQUARE	XSQUARED	N5+	OPEN	Squares and roots: graph: plots.
STEM&LEAF	DATA06T1	D6	SD	Stem and leaf diagram.
STEM&LEAF	DATA06T2	D6	SD	Stem and leaf diagram.
STEM&LEAF	DATA07T	D6	SD	Stem and leaf diagram: median.
STEM&LEAF	DATA08T	D6	SD	Stem and leaf diagram: arithmetic mean.
STRATEGY	BYWIZT1	A6	SD	Infer values from those supplied: if $x+y=8$, $10x + 10y = ?$
STRATEGY	BYWIZT2	A6	SD	Infer values from those supplied: if $x+y=24$, $10x + 10y = ?$
STRATEGY	BYWIZT3	A6	SD	Infer values from those supplied: if $x+y=2.5$, $10x + 10y = ?$
STRATEGY	BYWIZT4	A6	SD	Infer values from those supplied: if $x+y=3.2$, $10x + 10y = ?$
SUBSTITUTION	ALGEB13T1	A5	SD	Substitution: same expressions: different variables.
SUBSTITUTION	ALGEB13T2	A5	SD	Substitution: same expressions: different variables.
SUBSTITUTION	ALGEB13T3	A5	SD	Substitution: same expressions: different variables.
SUBSTITUTION	ALGEB13T4	A5	SD	Substitution: same expressions: different variables.
SUBSTITUTION	ALGEB14T1	A5	SD	Substitution: same expressions: different variables.
SUBSTITUTION	ALGEB14T2	A5	SD	Substitution: same expressions: different variables.
SUBSTITUTION	ALGEB14T3	A5	SD	Substitution: same expressions: different variables.
SUBSTITUTION	ALGEB14T4	A5	SD	Substitution: same expressions: different variables.
SUBSTITUTION	ALGEB16T1	A5	SD	Substitution: same variables: different expressions.
SUBSTITUTION	ALGEB16T2	A5	SD	Substitution: same variables: different expressions.
SUBSTITUTION	ALGEB16T3	A5	SD	Substitution: same variables: different expressions.
SUBSTITUTION	ALGEB16T4	A5	SD	Substitution: same variables: different expressions.
SUBSTITUTION	ALGEB15T1	A6	SD	Substitution: Table form.

SUBSTITUTION	ALGEB15T2	A6	SD	Substitution: Table form.
SUBTRACTION	DIFTABS1	N3	SD	Difference: table form.
SUBTRACTION	SSPRS1	N3	SD	Subtraction: more than one solution.
SUBTRACTION	TRIDIFS1	N3	SD	Triangular puzzle.
SUBTRACTION	TAKES1	N3	SD	Pen and paper method.
SUBTRACTION	SUBITS	N3+	OPEN	Pen and paper method.
SUBTRACTION	DIFTABT	N3+	OPEN	Difference: table form.
SUBTRACTION	SSPRT	N3+	OPEN	Subtraction: more than one solution.
SUBTRACTION	SSST	N3+	OPEN	Two subtractions: more than one solution.
SUBTRACTION	TRIDIFT	N3+	OPEN	Triangular puzzle.
SUBTRACTION	DIFTABS2	N4	SD	Difference: table form.
SUBTRACTION	SUBTAB1	N4	SD	Subtraction table: positive small integers.
SUBTRACTION	SUBTAB2	N4	SD	Subtraction table: positive integers.
SUBTRACTION	TRIDIFS2	N4	SD	Triangular puzzle.
SUBTRACTION	TRIDIFS3	N4	SD	Triangular puzzle.
SUBTRACTION	TRIDIFS4	N4	SD	Triangular puzzle.
SUBTRACTION	TRIDIFS5	N4	SD	Triangular puzzle.
SUBTRACTION	SUBITA	N4	OPEN	Pen and paper equal addition method.
SUBTRACTION	DWEBT	N4+	OPEN	Difference web.
SUBTRACTION	NEGTT	N4+	OPEN	Difference in temperatures: active thermometers.
SUBTRACTION	SUBTABT	N4+	OPEN	Subtraction table: open.
SUBTRACTION	SUBTAB3	N5	SD	Subtraction table: negative solution given positive integers.
SUBTRACTION	SUBTAB4	N5	SD	Subtraction table: negative numbers.
SUBTRACTION	SUBTAB5	N5	SD	Subtraction table: negative numbers.
SUBTRACTION	SUBTAB6	N5	SD	Subtraction table: negative numbers.
SUBTRACTION	SUBTAB7	N5	SD	Subtraction table: decimal.
SUBTRACTION	SUBTAB8	N5	SD	Subtraction table: decimal and negatives.
SYMMETRY	LINESYM3	S4	SD	Line symmetry of plain shapes.
SYMMETRY	SYMS1	S4	SD	Lines and order of rotation of plain shapes.
SYMMETRY	SYMV01T	S4	SD	Line and rotational symmetry: sorting letters: Venn diagram.
SYMMETRY	ROTA04	S4+	SD	Rotating shapes. (S4+) Dynamic diagrams from worksheet SHAPE04.
SYMMETRY	ROTA04B	S4+	SD	Rotating shapes. (S4+) Dynamic diagrams from worksheet SHAPE04B.
SYMMETRY	ROTA04C	S4+	SD	Rotating shapes. (S4+) Dynamic diagrams from worksheet SHAPE04C.
SYMMETRY	ROTA04D	S4+	SD	Rotating shapes. (S4+) Dynamic diagram. Extra shapes.
SYMMETRY	ROTAD	S4+	SD	Rotating numerals. (S4+) Dynamic diagram. Calculator digits.
SYMMETRY	ROTALET	S4+	SD	Rotating letters. (S4+) Dynamic diagram. Input order of rotation and line symmetry.
SYMMETRY	ROTATE09	S4+	OPEN	Rotate chosen polygon about center: any angle: dynamic diagram.
SYMMETRY	ROTATOR2	S5+	OPEN	Rotate chosen shape: any angle: input order of rotational symmetry.
SYMMETRY	ROTATEM2	S6+	OPEN	Rotate chosen letter about any point: input lines of symmetry.
SYMMETRY	ROTATEM3	S6+	OPEN	Rotate chosen shape about any point: input lines of symmetry.
TABLES	TABLS1	D4	SD	Reading information tables.
TABLES	TABLS2	D4	SD	Reading distance tables: miles.
TABLES	TABLS3	D4	SD	Reading distance tables: km.
TAN	TANGRAF2	SX	OPEN	Tangent graphs: transforming: 1 variable, 2 functions.
TAN	TANGRAF3	SX	OPEN	Tangent graphs (trends): transforming: 1 variable, 3 functions.
TIME	CLOCK01	S4	OPEN	Twenty four to twelve hour times: active clock.
TIME	TIMES1	S4	SD	Twenty four and twelve hour times.
TIME	TIMES2	S4	SD	Bus timetable.
TIME	TIMEDS1	S4+	OPEN	Calculating time differences: 24 hr clock.
TRANSLATION	TRANSP0	S4	OPEN	Translate a quadrilateral using words and numbers: active display. First quadrant.
TRANSLATION	TRANSP1	S4	OPEN	Translate a quadrilateral using words and numbers: active display. Four quad.
TRANSLATION	TRANSP2	S4	OPEN	Translate quadrilaterals using directed numbers: active display.
TRANSLATION	TRANSP3	S4	OPEN	Translate triangles using directed numbers: active display.
TRANSLATION	TRANSP4	S4	OPEN	Translate quadrilaterals using directed numbers: sliding macro.
TRANSLATION	TRANSP5	S4	OPEN	Translate a quadrilateral using directed numbers: sliding macro, 14 questions.
TRANSLATION	TRANL1	S6+	OPEN	Translate using vectors: active display.
TRANSLATION	TRANS2X	S6+	OPEN	Translate quadrilaterals using vectors: animated graphics.
TRANSLATION	TRANSIT00T	S6+	SD	14questions: animated translations.
TRANSLATION	TRANSIT01T	S6+	SD	14 questions: animated translations recording answers.
TRANSLATION	TRANSLATE	S6+	OPEN	Translate diagram using vectors: active display.
TRANSLATION	TRANSLATE2	S6+	OPEN	Translate quadrilaterals using vectors: active display.
TRANSLATION	TRANSLATE3	S6+	OPEN	Translate triangles using vectors: active display.
TRANSPOSITION	TRANS1	N4	OPEN	Transposition: 4 true statements using + and - with 3 numbers.
TRIAL & IMP	TRIALX01	A6+	SD	Trial and improvement. Find x to 1.s.f.
TRIAL & IMP	TRIALX02	A6+	SD	Trial and improvement. Find x to 1.s.f.
TRIAL & IMP	TRIALX03	A6+	SD	Trial and improvement. Find x to 1.s.f.
TRIAL & IMP	TRIALX04	A6+	SD	Trial and improvement. Find x to 1.s.f.
TRIAL & IMP	TRIALX11	A6+	SD	Trial and improvement. Find x to 1.s.f. Two solutions.
TRIAL & IMP	TRIALX12	A6+	SD	Trial and improvement. Find x to 1.s.f. Two solutions.
TRIAL & IMP	TRIALX13	A6+	SD	Trial and improvement. Find x to 1.s.f. Two solutions.

TRIAL & IMP	TRIALX14	A6+	SD	Trial and improvement. Find x to 1.s.f. Two solutions.
TRIAL & IMP	TRIALX21	A6+	SD	Trial and improvement. Find x to 1.s.f. and 2.s.f.
TRIAL & IMP	TRIALX22	A6+	SD	Trial and improvement. Find x to 1.s.f. and 2.s.f.
TRIAL & IMP	TRIALX23	A6+	SD	Trial and improvement. Find x to 1.s.f. and 2.s.f.
TRIAL & IMP	TRIALX24	A6+	SD	Trial and improvement. Find x to 1.s.f. and 2.s.f.
TRIGONOMETRY	TRI01T	S5	SD	Naming sides of right angled triangles.
TRIGONOMETRY	TRI02T	S7	SD	Placing sines and cosines.
TRIGONOMETRY	TRI03T	S7	SD	Finding sin and cos values.
TRIGONOMETRY	TRI05T	S7	SD	Using sin and cos values to find sides.
TRIGONOMETRY	TRI06T	S7	SD	Finding tan value.
TRIGONOMETRY	TRI07T	S7	SD	Using tan value to find side.
TRIGONOMETRY	TRI10T	S7	SD	Using tan, sin and cos values to find sides.
TRIGONOMETRY	TRI12T	S7	SD	Using tan, sin and cos values to find angles.
TRIGONOMETRY	TRIG01T	S7	SD	Sine: finding side: hypotenuse as scale factor: similar triangles.
TRIGONOMETRY	TRIG02T	S7	SD	Sine: finding side: hypotenuse as scale factor.
TRIGONOMETRY	TRIG03T	S7	SD	Cosine: finding side: hypotenuse as scale factor: similar triangles.
TRIGONOMETRY	TRIG04T	S7	SD	Cosine: finding side: hypotenuse as scale factor.
TRIGONOMETRY	TRIG05T	S7	SD	Sine and Cosine: finding side: hypotenuse as scale factor.
TRIGONOMETRY	TRIG06T	S7	SD	Cosine: finding side: hypotenuse as scale factor.
TRIGONOMETRY	TRIG07T	S7	SD	Tangent: finding side: adjacent side as scale factor: similar triangles.
TRIGONOMETRY	TRIG08T	S7	SD	Sine, cosine and tangent: finding sides.
TRIGONOMETRY	TRI03TT	S7+	OPEN	Finding sin and cos values.
TRIGONOMETRY	TRI05TT	S7+	OPEN	Using sin and cos values to find sides.
TRIGONOMETRY	TRI15T	S8	SD	3D problems.
TRIGONOMETRY	TRI16T	S8	SD	3D problems.
TRIGONOMETRY	TRI17T	S8	SD	3D problems.
TRIGONOMETRY	TRI18T	S8+	SD	3D problems.
TRIGONOMETRY	TRIANGLES3	SX	OPEN	Draw triangles using side lengths. Calculate angles to 1.d.p.
TRIGONOMETRY	SINANG	S8	OPEN	Plot sine value against angle. Active rotation and display.
TRIGONOMETRY	COSANG	S8	OPEN	Plot cosine value against angle. Active rotation and display.
TRIGONOMETRY	TRIGRAF01	SX	OPEN	Cosine and sine graphs: transforming: compare.
TRIGONOMETRY	TRIGRAF02	SX	OPEN	Cosine and sine graphs: transforming: compare.
TRIGONOMETRY	SINRT1	SX	OPEN	Sine rule. Set angle 20 to 160 to pose questions. Interactive triangle.
TRIGONOMETRY	COSRT1	SX	OPEN	Cosine rule. Set angle 10 to 90 to pose questions. Interactive triangle.
TRIGONOMETRY	COSRT2	SX	OPEN	Cosine rule. Set angle 0 to 180 to pose questions. Interactive triangle.
VARIABLES	ALGT2	A4	SD	Algebra: variables: solutions in form n=2: addition
VARIABLES	ALGT3	A4	SD	Algebra: variables: solutions in form n=2: subtraction.
VARIABLES	PUZSAS1	A4	SD	Solving equations using colored puzzles.
VARIABLES	PUZSAS2	A4	SD	Solving equations using colored puzzles.
VARIABLES	ALGT1	A4+	OPEN	Algebra: variables: solutions in form n=2: addition
VARIABLES	ALGT6	A4+	OPEN	Algebra: variables: solutions in form n=2: subtraction.
VARIABLES	ALGT4	A5	SD	Algebra: variables: solutions in form n=2: multiplication.
VARIABLES	ALGT5	A5	SD	Algebra: variables: solutions in form n=2: division.
VARIABLES	PUZSAS3	A5	SD	Solving equations using colored puzzles.
VARIABLES	PUZSAS4	A5	SD	Solving equations using colored puzzles.
VARIABLES	PUZSAS5	A5	SD	Solving equations using colored puzzles.
VARIABLES	ALGT7	A5+	OPEN	Algebra: variables: solutions in form n=2: multiplication.
VARIABLES	ALGT8	A5+	OPEN	Algebra: variables: solutions in form n=2: division.
VARIABLES	PUZSAT	A5+	OPEN	Solving equations using colored puzzles.
VOLUME	VOLS1	S5	SD	Volume of cuboids.
VOLUME	SPACES1	S5+	OPEN	Calculations involving cuboids.
VOLUME	SPACES2	S5+	OPEN	Calculations involving right triangular prisms.
VOLUME	3D2	S6	OPEN	Enlarge simple solids: input change in volume: twirl.
VOLUME	VOLUME01	S6	OPEN	Interactive diagram: control lengths: total volume given.
VOLUME	VOLUME02	S6	OPEN	Interactive diagram: control lengths: input volume.
VOLUME	VOLUME03	S6	OPEN	Interactive diagram: rescaling for larger numbers: input volume.
VOLUME	VOLUME04	S6	OPEN	Rescaling diagram for larger numbers: input volume in two units.
VOLUME	ENVOL01T	S6+	SD	Calculate enlargements and volumes from diagrams: 15 questions.