

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	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	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.	
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	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 trapezium with guide on co-ordinate grid: area given.	
AREA	AREAQU06Q	S5	Open	Area of trapezium 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	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	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	AREATT	S5+	OPEN	Area of triangles.	
BIDMAS	PRIORITY	N5	SD	Explore reason for priority.	
BIDMAS	PRIORITY2	N5	SD	2 2 2, four operands: explore.	
BIDMAS	PRIORITY3	N5	SD	3 2 5, four operands: explore.	

BIDMAS	PRIORITY8	N5+	OPEN	Any three numbers, four operands: explore.
CAPACITY	MEASS08	S4	Open	Volume in ml and l.
CAPACITY	MEASS09	S4	Open	Volume in ml and l.
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.Open input
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.
CO-ORDINATES	COORDPLOT	A4	OPEN	Cartesian co-ordinates, point plotter 4 quadrants: decimal allowed.
CO-ORDINATES	COORDP4	A6+	OPEN	Plots 4 points from input co-ordinates: 4 quadrants.
DECIMALS	EPNLS5	N4	SD	Estimate position on line: decimal: active control.
DECIMALS	FRACDCS1	N4	SD	Decimal blue on bar to fraction: active indicator control.
DIRECTION	CDIR01	S4	SD	Interactive compass direction diagram.
DIRECTION	ORIENS1	S4	SD	Points of the compass.
DIRECTION	ORIENS2	S4	SD	Compass directions.
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	SDIV4T1	N4	OPEN	Short division with remainders. Carries given.
DIVISION	SDIV4T2	N4	OPEN	Short division with remainders. Input carries.
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	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	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	DIVFRT	N6+	OPEN	Division with answer as mixed number.
ENLARGEMENT	ENLARGE	S6+	OPEN	Enlarge: centre and scale factor: active display: decimal allowed.
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
FACTORS	FTRST	N4	SD	Sets and number of factors.
FACTORS	FACTRS360	N5	SD	Number of factors from products of primes.
FACTORS	FACTRS60	N5	SD	Number of factors from products of primes.
FACTORS	FACTRST	N5+	OPEN	Finding prime factors: integers 2 to 128 checked.
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	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	DECTOFRAC	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	DIVFRT	N6+	OPEN	Division with answer as mixed number.
GRAPHSC	CONVGR01	S5+	OPEN	Conversion graph: pounds: kilograms.
GRAPHSC	CONVGR02	S5+	OPEN	Conversion graph: miles and kilometres
INDICES	INDIC00T	N5	SD	Index notation.
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<numbers<31)
INEQUALITIES	INEQUS6	N4	SD	(-6<numbers<3)
INEQUALITIES	INEQUS7	N4	SD	(4<numbers<7, decimal)
INEQUALITIES	INEQUS8	N4	SD	(3<numbers<4, decimal).
INEQUALITIES	INEQUS9	N4	SD	(1.5<numbers<2, decimal: 2 places).
INEQUALITIES	INEQUT3	N4+	OPEN	(n<numbers<m)
INEQUALITIES	INEQUT4	N4+	OPEN	(n<=numbers<m)
INEQUALITIES	INEQUT5	N4+	OPEN	(n<numbers<=m)
INEQUALITIES	INEQUT6	N4+	OPEN	(n<=numbers<=m)
INEQUALITIES	INEQUTG2	N4+	OPEN	(Open>=)
INEQUALITIES	INEQUTL2	N4+	OPEN	(Open<=)
INEQUALITIES	INEQUS10	N5	SD	(-1<numbers<1, decimal: negatives).
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.
MASS	MEASS02	S4+	OPEN	g and kg.
MASS	MEASS04	S4+	OPEN	g and mg.
MASS	MEASS07	S5+	OPEN	g, cg and kg.
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	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	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	OPSPUZ3T	N5	OPEN	Make calculator puzzle: 3 operators: 4 numbers. Checks possibility ahead.
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	TRIBYS1	N3	SD	Triangular puzzle: introduction.
MULTIPLICATION	TRIBYS2	N3	SD	Triangular puzzle: introduction.
MULTIPLICATION	TRIBYS3	N3	SD	Triangular puzzle: using common factors.
MULTIPLICATION	TRIBYS4	N3	SD	Triangular puzzle: larger numbers.
MULTIPLICATION	TRIBYT	N3+	Open	Triangular puzzle.
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	TRIBYS5	N4	SD	Triangular puzzle: with negatives.
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	MMMT	N4+	OPEN	Multiplication: more than one solution.
MULTIPLICATION	MULTABT	N4+	OPEN	Multiplication: table form.
MULTIPLICATION	MMPRS1	N5	SD	Multiplication: more than one solution.
MULTIPLICATION	DMD04	N5+	OPEN	Mental multiplication method machine.
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.
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.
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	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	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.
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.
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.
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	PAREAPS1	S5+	OPEN	Problem with area and perimeter.
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	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	MFFFS	N5	SD	Picking numbers by properties: mixed.
PROPERTIES	MULTSS1	N5	SD	Picking numbers by properties: multiples.
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.
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.
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.
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	ROTATE09	S6+	OPEN	Rotate chosen polygon about given point: any angle.
ROTATION	ROTATE10	S6+	OPEN	Rotate chosen polygon about any point: any angle.
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.
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	SEQMXS1	N3+	OPEN	Finding missing terms: adding on: integer.
SEQUENCES	SEQFMS4	N4+	OPEN	Forming sequences: subtraction: from any term.
SEQUENCES	SEQFMS5	N4+	OPEN	Forming sequences: multiplication: from first term.
SEQUENCES	SEQFMS6	N4+	OPEN	Forming sequences: multiplication: from any term.
SEQUENCES	SEQFMS7F	N4+	OPEN	Forming sequences: division by 5: from first term.
SEQUENCES	SEQFMS7T	N4+	OPEN	Forming sequences: division by 2: from first term.
SEQUENCES	SEQFMS8F	N4+	OPEN	Forming sequences: division by 5: from any term.
SEQUENCES	SEQFMS8T	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	Recognising 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	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	Recognising Similarity and Congruence: comparing rectangles.
SHAPE	SCONT02	S5+	SD	Recognising Similarity and Congruence: comparing triangles.
SIGNIFICANCE	SFIGSS	N5+	OPEN	Gives significance of input.
SIGNIFICANCE	SFIGST	N5+	OPEN	Checks significance of input.
SQUARE	SQCUS1	N5	SD	Squares and roots.
SQUARE	SQCUS2	N5	SD	Squares and roots.
SQUARE	SQCUT	N5+	OPEN	Squares and roots.
SQUARE	SQNUS1	N5+	OPEN	Square a number: index notation.
SQUARE	XSQUARED	N5+	OPEN	Squares and roots: graph: plots.
SUBTRACTION	DIFTABS1	N3	SD	Difference: table form.
SUBTRACTION	SSPRS1	N3	SD	Subtraction: more than one solution.
SUBTRACTION	TAKES1	N3	SD	Pen and paper method.
SUBTRACTION	TRIDIFS1	N3	SD	Triangular puzzle.
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	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.
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 centre: any angle: dynamic diagram.
SYMMETRY	ROTATOR	S4+	Open	Interactive letter rotator.
SYMMETRY	ROTATOR2	S5+	OPEN	Rotate chosen shape: any angle: input order of rotational symmetry.
TABLES	TABLS1	D4	SD	Reading information tables.

TABLES	TABLS2	D4	SD	Reading distance tables: miles.
TABLES	TABLS3	D4	SD	Reading distance tables: km.
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	TIMES1	S4+	OPEN	Calculating time differences: 24 hr clock.
TRANSLATION	TRANSP0	S3	Open	Translate diagram using left, right, up and down: 1st quadrant.
TRANSLATION	TRANSP1	S3	Open	Translate diagram using left, right, up and down: 4 quadrants.
TRANSLATION	TRANSP2	S5	Open	Translate quadrilaterals using directed numbers: active display.
TRANSLATION	TRANSP3	S5	Open	Translate quadrilaterals using directed numbers: active movement.
TRANSLATION	TRANSP4	S5	Open	Translate triangles using directed numbers: active movement.
TRANSLATION	TRANSP5	S5	SD	14 questions. Translation with directed numbers. Active movement.
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	TRANSS1	N4	OPEN	Transposition: 4 true statements using + and - with 3 numbers.
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 coloured puzzles.
VARIABLES	PUZSAS2	A4	SD	Solving equations using coloured 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 coloured puzzles.
VARIABLES	PUZSAS4	A5	SD	Solving equations using coloured puzzles.
VARIABLES	PUZSAS5	A5	SD	Solving equations using coloured 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 coloured 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	VOLUME01	S6	OPEN	Interactive diagram: control lengths: total volume given.
VOLUME	VOLUME02	S6	OPEN	Interactive diagram: control lengths: input volume.