

RISING STARS Mathematical Vocabulary Checklists

EARLY YEARS FOUNDATION STAGE to YEAR 6

EARLY YEARS FOUNDATION STAGE

NUMBER

Number and place value

Number

zero

number

one, two, three ... to twenty and beyond
teens numbers, eleven, twelve ... twenty

none

how many ...?

count, count (up) to, count on (from, to),
count back (from, to)

count in ones, twos, fives, tens

is the same as

more, less

odd, even

few

pattern

pair

Place value

ones

tens

digit

the same number as, as many as

more, larger, bigger, greater

fewer, smaller, less

fewest, smallest, least

most, biggest, largest, greatest

one more, ten more

one less, ten less

compare

order

size

first, second, third... twentieth

last, last but one

before, after

next

between

Estimating

guess

how many ...?

estimate

nearly

close to

about the same as

just over, just under

too many, too few

enough, not enough

Addition and subtraction

add, more, and

make, sum, total

altogether

double

one more, two more ... ten more

how many more to make ...?

how many more is ... than ...?

how much more is ...?

take away

how many are left/left over?

how many have gone?

one less, two less, ten less ...

how many fewer is ... than ...?

how much less is ...?

difference between

Multiplication and division

sharing

doubling

halving

number patterns

Fractions

parts of a whole

half

quarter

MEASUREMENT

measure

size

compare

guess, estimate

enough, not enough

too much, too little

too many, too few

nearly, close to, about the same as

just over, just under

Length

metre

length, height, width, depth

long, short, tall

high, low

wide, narrow

thick, thin

longer, shorter, taller, higher ... and so on

longest, shortest, tallest, highest ... and so on

far, near, close

Weight

weigh, weighs, balances

heavy, light

heavier than, lighter than

heaviest, lightest

scales

Capacity and volume

full

empty

half full

holds

container

Time

time

days of the week, Monday, Tuesday ...

day, week

birthday, holiday

morning, afternoon, evening, night

bedtime, dinner time, playtime

today, yesterday, tomorrow

before, after

next, last

now, soon, early, late

quick, quicker, quickest, quickly

slow, slower, slowest, slowly

old, older, oldest

new, newer, newest

takes longer, takes less time

hour, o'clock

clock, watch, hands

Money

money

coin

penny, pence, pound

price, cost

buy, sell

spend, spent

pay

GEOMETRY

Properties of shape

shape, pattern

flat

curved, straight

round

hollow, solid

sort

make, build, draw

size

bigger, larger, smaller
symmetrical
pattern, repeating pattern
match

2-D shape

corner, side
rectangle (including square)
circle
triangle

3-D shape

face, edge, vertex, vertices
cube
pyramid
sphere
cone

Position and direction

position
over, under
above, below
top, bottom, side
on, in
outside, inside
around
in front, behind
front, back
beside, next to
opposite
apart
between
middle, edge
corner
direction
left, right
up, down
forwards, backwards, sideways

across
next to, close, near, far
along
through
to, from, towards, away from
movement
slide
roll
turn
stretch, bend
whole turn, half turn

STATISTICS

count, sort
group, set
list

GENERAL

pattern
puzzle
what could we try next?
how did you work it out?
recognise
describe
draw
compare
sort

YEAR 1

NUMBER

Number and place value

Number

number

numeral

zero

one, two, three ... twenty

teens numbers, eleven, twelve ... twenty

twenty-one, twenty-two ... one hundred

none

how many ...?

count, count (up) to, count on (from, to),
count back (from, to)

forwards

backwards

count in ones, twos, fives, tens

equal to

equivalent to

is the same as

more, less

most, least

many

odd, even

multiple of

few

pattern

pair

Place value

ones

tens

digit

the same number as, as many as

more, larger, bigger, greater

fewer, smaller, less

fewest, smallest, least

most, biggest, largest, greatest

one more, ten more

one less, ten less

equal to

one more, ten more

one less, ten less

compare

order

size

first, second, third... twentieth

last, last but one

before, after

next

between

half-way between

above, below

Estimating

guess

how many ...?

estimate

nearly

roughly

close to

about the same as

just over, just under

too many, too few

enough, not enough

Addition and subtraction

addition

add, more, and

make, sum, total

altogether

double

near double

half, halve

one more, two more ... ten more

how many more to make ...?

how many more is ... than ...?

how much more is ...?

subtract

take away
 how many are left/left over?
 how many have gone?
 one less, two less, ten less ...
 how many fewer is ... than ...?
 how much less is ...?
 difference between

equals

is the same as
 number bonds/pairs
 missing number

Multiplication and division

multiplication
 multiply
 multiplied by
 multiple
 division
 dividing
 grouping
 sharing
 doubling
 halving
 array
 number patterns

Fractions

fraction
 equal part
 equal grouping
 equal sharing
 parts of a whole
 half
 one of two equal parts
 quarter
 one of four equal parts

MEASUREMENT

measure
measurement
 size
 compare
 guess, estimate
 enough, not enough
 too much, too little
 too many, too few
 nearly, close to, about the same as
roughly
 just over, just under

Length

centimetre, metre
 length, height, width, depth
 long, short, tall
 high, low
 wide, narrow
 thick, thin
 longer, shorter, taller, higher ... and so on
 longest, shortest, tallest, highest ... and so on
 far, near, close
ruler
metre stick

Weight

kilogram, **half kilogram**
 weigh, weighs, balances
 heavy, light
 heavier than, lighter than
 heaviest, lightest
 scales

Capacity and volume

litre, half litre

capacity

volume

full

empty

more than

less than

half full

quarter full

holds

container

Time

time

days of the week, Monday, Tuesday ...

months of the year (January, February ...)

seasons: spring, summer, autumn, winter

day, week, weekend, month, year

birthday, holiday

morning, afternoon, evening, night

bedtime, dinner time, playtime

today, yesterday, tomorrow

before, after

earlier, later

next, first, last

midnight

date

now, soon, early, late

quick, quicker, quickest, quickly

slow, slower, slowest, slowly

old, older, oldest

new, newer, newest

takes longer, takes less time

how long ago?

how long will it be to ...?

how long will it take to ...?

how often?

always, never, often, sometimes

usually

once, twice

hour, o'clock, half past, quarter past,
quarter to

clock, clock face, watch, hands

hour hand, minute hand

hours, minutes

Money

money

coin

penny, pence, pound

price, cost

buy, sell

spend, spent

pay

change

dear, costs more

cheap, costs less, cheaper

costs the same as

how much ...?

how many ...?

total

GEOMETRY**Properties of shape**

shape, pattern

flat

curved, straight

round

hollow, solid

sort

make, build, draw

size

bigger, larger, smaller

symmetry, symmetrical, symmetrical pattern

pattern, repeating pattern

match

2-D shape

corner, side

point, pointed

rectangle (including square)

circle

triangle

3-D shape

face, edge, vertex, vertices

cube, cuboid

pyramid

sphere

cone

cylinder

Position and direction

position

over, under, underneath

above, below

top, bottom, side

on, in

outside, inside

around

in front, behind

front, back

beside, next to

opposite

apart

between

middle, edge

centre

corner

direction

journey

left, right

up, down

forwards, backwards, sideways

across

next to, close, near, far

along

through

to, from, towards, away from

movement

slide

roll

turn

stretch, bend

whole turn, half turn, quarter turn, three-quarter turn

STATISTICS

count, sort, vote

group, set

list, table

GENERAL

pattern

puzzle

problem, problem solving

mental, mentally

what could we try next?

how did you work it out?

explain your thinking

recognise

describe

draw

compare

sort

YEAR 2

NUMBER

Number and place value

Number

number

numeral

zero

one, two, three ... twenty

teens numbers, eleven, twelve ... twenty

twenty-one, twenty-two ... one hundred, **two hundred ... one thousand**

none

how many ...?

count, count (up) to, count on (from, to),
count back (from, to)

forwards

backwards

count in ones, twos, fives, tens, **threes, fours and so on**

equal to

equivalent to

is the same as

more, less

most, least

tally

many

odd, even

multiple of

sequence

continue

predict

few

pattern

pair, **rule**

> greater than

< less than

Place value

ones

tens, **hundreds**

digit

one-, two- or three-digit number

place, place value

stands for, represents

exchange

the same number as, as many as
more, larger, bigger, greater

fewer, smaller, less

fewest, smallest, least

most, biggest, largest, greatest

one more, ten more

one less, ten less

equal to

compare

order

size

first, second, third ... twentieth

twenty-first, twenty-second ...

last, last but one

before, after

next

between

halfway between

above, below

Estimating

guess

how many ...?

estimate

nearly

roughly

close to

about the same as

just over, just under

exact, exactly

too many, too few
enough, not enough

Addition and subtraction

addition
add, more, and
make, sum, total
altogether
double
near double
half, halve
one more, two more ... ten more ... **one hundred more**
how many more to make ...?
how many more is ... than ...?
how much more is ...?
subtract
take away
how many are left/left over?
how many have gone?
one less, two less, ten less ... **one hundred less**
how many fewer is ... than ...?
how much less is ...?
difference between
equals
is the same as
number bonds/pairs/**facts**
tens boundary

Multiplication and division

multiplication
multiply
multiplied by
multiple
groups of
times
once, twice, three times ... ten times
repeated addition

division
dividing, **divide, divided by, divided into**
grouping
sharing, **share, share equally**
left, left over
one each, two each, three each ... ten each
group in pairs, threes ... tens
equal groups of
doubling
halving
array
row, column
number patterns
multiplication table
multiplication fact, division fact

Fractions

fraction
equivalent fraction
mixed number
numerator, denominator
equal part
equal grouping
equal sharing
parts of a whole
half, **two halves**
one of two equal parts
quarter, **two quarters, three quarters**
one of four equal parts
one third, two thirds
one of three equal parts

MEASUREMENT

measure
measurement
size
compare
measuring scale

guess, estimate
 enough, not enough
 too much, too little
 too many, too few
 nearly, close to, about the same as
 roughly
 just over, just under

Length

centimetre, metre
 length, height, width, depth
 long, short, tall
 high, low
 wide, narrow
 thick, thin
 longer, shorter, taller, higher ... and so on
 longest, shortest, tallest, highest ... and so on
 far, **further, furthest**, near, close
 ruler
 metre stick, **tape measure**

Weight

kilogram, half kilogram, **gram**
 weigh, weighs, balances
 heavy, light
 heavier than, lighter than
 heaviest, lightest
 scales

Capacity and volume

litre, half litre, **millilitre**
 capacity
 volume
 full
 empty
 more than
 less than
 half full

quarter full
 holds, **contains**
 container

Temperature

temperature
degree

Time

time
 days of the week, Monday, Tuesday ...
 months of the year (January, February ...)
 seasons: spring, summer, autumn, winter
 day, week, weekend, **fortnight**, month, year
 birthday, holiday
 morning, afternoon, evening, night
 bedtime, dinnertime, playtime
 today, yesterday, tomorrow
 before, after
 earlier, later
 next, first, last
 midnight
 date
 now, soon, early, late
 quick, quicker, quickest, quickly
 slow, slower, slowest, slowly
 old, older, oldest
 new, newer, newest
 takes longer, takes less time
 how long ago?
 how long will it be to ...?
 how long will it take to ...?
 how often?
 always, never, often, sometimes
 usually
 once, twice
 hour, o'clock, half past, quarter past,
 quarter to
5, 10, 15 ... minutes past

clock, clock face, watch, hands
 digital/analogue clock/watch, timer
 hour hand, minute hand
 hours, minutes, seconds

Money

money
 coin
 penny, pence, pound
 price, cost
 buy, bought, sell, sold
 spend, spent
 pay
 change
 dear, costs more
 cheap, costs less, cheaper
 costs the same as
 how much ...?
 how many ...?
 total

GEOMETRY

Properties of shape

shape, pattern
 flat
 curved, straight
 round
 hollow, solid
 sort
 make, build, draw
 surface
 size
 bigger, larger, smaller
 symmetry, symmetrical, symmetrical pattern
 line symmetry
 pattern, repeating pattern
 match

2-D shape

corner, side
 point, pointed
 rectangle (including square), rectangular
 circle, circular
 triangle, triangular
 pentagon
 hexagon
 octagon

3-D shape

face, edge, vertex, vertices
 cube, cuboid
 pyramid
 sphere
 cone
 cylinder

Position and direction

position
 over, under, underneath
 above, below
 top, bottom, side
 on, in
 outside, inside
 around
 in front, behind
 front, back
 beside, next to
 opposite
 apart
 between
 middle, edge
 centre
 corner
 direction
 journey, route
 left, right

up, down

higher, lower

forwards, backwards, sideways

across

next to, close, near, far

along

through

to, from, towards, away from

clockwise, anticlockwise

movement

slide

roll

turn

stretch, bend

whole turn, half turn, quarter turn,
three-quarter turn

right angle

straight line

STATISTICS

count, tally, sort, vote

graph, block graph, pictogram

represent

group, set

list, table

label, title

most popular, most common

least popular, least common

GENERAL

pattern

puzzle

problem, problem solving

mental, mentally

what could we try next?

how did you work it out?

show how you ...

explain your thinking

explain your method

describe the pattern

describe the rule

investigate

recognise

describe

draw

compare

sort

mental calculation

written calculation

YEAR 3

NUMBER

Number and place value

Number

number
numeral
zero
one, two, three ... twenty
teens numbers, eleven, twelve ... twenty
twenty-one, twenty-two ... one hundred, two hundred ... one thousand
none
how many ...?
count, count (up) to, count on (from, to),
count back (from, to)
forwards
backwards
count in ones, twos, fives, tens, threes,
fours, **eights**, **fifties** and so on to **hundreds**
equal to
equivalent to
is the same as
more, less
most, least
tally
many
odd, even
multiple of, **factor of**
sequence
continue
predict
few
pattern
pair, rule
relationship
> greater than
< less than
Roman numerals

Place value

ones
tens, hundreds
digit
one-, two- or three-digit number
place, place value
stands for, represents
exchange
the same number as, as many as
more, larger, bigger, greater
fewer, smaller, less
fewest, smallest, least
most, biggest, largest, greatest
one more, ten more, **one hundred more**
one less, ten less, **one hundred less**
equal to
compare
order
size
first, second, third ... twentieth
twenty-first, twenty-second ...
last, last but one
before, after
next
between
halfway between
above, below

Estimating

guess
how many ...?
estimate
nearly
roughly
close to
approximate, approximately
about the same as
just over, just under

exact, exactly

too many, too few

enough, not enough

round, nearest, round to the nearest ten,
hundred

round up, round down

Addition and subtraction

addition

add, more, and

make, sum, total

altogether

double

near double

half, halve

one more, two more ... ten more ... one
hundred more

how many more to make ...?

how many more is ... than ...?

how much more is ...?

subtract

take away

how many are left/left over?

how many have gone?

one less, two less, ten less ... one hundred
less

how many fewer is ... than ...?

how much less is ...?

difference between

equals

is the same as

number bonds/pairs/facts

missing number

tens boundary, **hundreds boundary**

Multiplication and division

multiplication

multiply

multiplied by

multiple, **factor**

groups of

times

product

once, twice, three times ... ten times

repeated addition

division

dividing, divide, divided by, divided into

left, left over, **remainder**

grouping

sharing, share, share equally

one each, two each, three each ... ten each

group in pairs, threes ... tens

equal groups of

doubling

halving

array

row, column

number patterns

multiplication table

multiplication fact, division fact

Fractions

fraction

equivalent fraction

mixed number

numerator, denominator

equal part

equal grouping

equal sharing

parts of a whole

half, two halves

one of two equal parts

quarter, two quarters, three quarters

one of four equal parts

one third, two thirds

one of three equal parts

sixths, sevenths, eighths, tenths ...

MEASUREMENT

measure
 measurement
 size
 compare
 measuring scale, **division**
 guess, estimate
 enough, not enough
 too much, too little
 too many, too few
 nearly, close to, about the same as,
approximately
 roughly
 just over, just under

Length

millimetre, centimetre, metre, **kilometre**, **mile**
 length, height, width, depth
 long, short, tall
 high, low
 wide, narrow
 thick, thin
 longer, shorter, taller, higher ... and so on
 longest, shortest, tallest, highest ... and so on
 far, further, furthest, near, close
distance apart ... between ... to ... from
perimeter
 ruler
 metre stick, tape measure

Weight

kilogram, half kilogram, gram
 weigh, weighs, balances
 heavy, light
 heavier than, lighter than
 heaviest, lightest
 scales

Capacity and volume

litre, half litre, millilitre
 capacity
 volume
 full
 empty
 more than
 less than
 half full
 quarter full
 holds, contains
 container

Temperature

temperature
 degree
centigrade

Time

time
 days of the week, Monday, Tuesday ...
 months of the year (January, February ...)
 seasons: spring, summer, autumn, winter
 day, week, weekend, fortnight, month, year,
century
 birthday, holiday
 morning, afternoon, evening, night
 bedtime, dinner time, playtime
 today, yesterday, tomorrow
 before, after
 earlier, later
 next, first, last
 midnight
calendar, date
 now, soon, early, late, **earliest**, **latest**
 quick, quicker, quickest, quickly
 slow, slower, slowest, slowly
 old, older, oldest
 new, newer, newest

takes longer, takes less time
 how long ago?
 how long will it be to ...?
 how long will it take to ...?
 how often?
 always, never, often, sometimes
 usually
 once, twice
 hour, o'clock, half past, quarter past, quarter to
 5, 10, 15 ... minutes past
 a.m., p.m.
 clock, clock face, watch, hands
 digital/analogue clock/watch, timer
 hour hand, minute hand
 hours, minutes, seconds
 Roman numerals
 12-hour clock time, 24-hour clock time

Money

money
 coin
 penny, pence, pound
 price, cost
 buy, bought, sell, sold
 spend, spent
 pay
 change
 dear, costs more
 cheap, costs less, cheaper
 costs the same as
 how much ...?
 how many ...?
 total

GEOMETRY

Properties of shape

shape, pattern

flat
 curved, straight
 round
 hollow, solid
 sort
 make, build, draw
 perimeter
 surface
 size
 bigger, larger, smaller
 symmetry, symmetrical, symmetrical pattern
 line symmetry
 pattern, repeating pattern
 match

2-D shape

corner, side
 point, pointed
 rectangle (including square), rectangular
 circle, circular
 triangle, triangular
 pentagon, pentagonal
 hexagon, hexagonal
 octagon, octagonal
 quadrilateral
 right-angled
 parallel, perpendicular

3-D shape

face, edge, vertex, vertices
 cube, cuboid
 pyramid
 sphere, hemisphere
 cone
 cylinder
 prism, triangular prism

Position and direction

position

over, under, underneath
 above, below
 top, bottom, side
 on, in
 outside, inside
 around
 in front, behind
 front, back
 beside, next to
 opposite
 apart
 between
 middle, edge
 centre
 corner
 direction
 journey, route
 left, right
 up, down
 higher, lower
 forwards, backwards, sideways
 across
 next to, close, near, far
 along
 through
 to, from, towards, away from
 clockwise, anticlockwise
 compass point
 north, south, east, west, N, S, E, W
 horizontal, vertical, diagonal
 movement
 slide
 roll
 turn
 stretch, bend
 whole turn, half turn, quarter turn,
 three-quarter turn
 angle ... is a greater/smaller angle than
 right angle

acute angle
 obtuse angle
 straight line

STATISTICS

count, tally, sort, vote
 graph, block graph, pictogram
 represent
 group, set
 list, table, chart, bar chart, frequency table
 Carroll diagram, Venn diagram
 label, title, axis, axes
 diagram
 most popular, most common
 least popular, least common

GENERAL

pattern
 puzzle
 problem, problem-solving
 mental, mentally
 what could we try next?
 how did you work it out?
 show how you ...
 explain your thinking
 explain your method
 describe the pattern
 describe the rule
 investigate
 recognise
 describe
 draw
 compare
 sort
 greatest value, least value
 mental calculation
 written calculation
 statement

NUMBER

Number and place value

Number

number
numeral
zero
one, two, three ... twenty
teens numbers, eleven, twelve ... twenty
twenty-one, twenty-two ... one hundred, two hundred ... one thousand ... **ten thousand, hundred thousand, million**
none
how many ...?
count, count (up) to, count on (from, to), count back (from, to)
forwards
backwards
count in ones, twos, fives, tens, threes, fours, eights, fifties, **sixes, sevens, nines, twenty-fives** and so on to hundreds, thousands
equal to
equivalent to
is the same as
more, less
most, least
tally
many
odd, even
multiple of, factor of
sequence
continue
predict
few
pattern
pair, rule
relationship

next, consecutive

> greater than

< less than

Roman numerals

integer, positive, negative

above/below zero, minus

negative numbers

Place value

ones

tens, hundreds

digit

one-, two- or three-digit number

place, place value

stands for, represents

exchange

the same number as, as many as

more, larger, bigger, greater

fewer, smaller, less

fewest, smallest, least

most, biggest, largest, greatest

one more, ten more, one hundred more, **one thousand more**

one less, ten less, one hundred less, **one thousand less**

equal to

compare

order

size

first, second, third ... twentieth

twenty-first, twenty-second ...

last, last but on

before, after

next

between

halfway between

above, below

Estimating

guess
 how many
 estimate
 nearly
 roughly
 close to
 approximate, approximately
 about the same as
 just over, just under
 exact, exactly
 too many, too few
 enough, not enough
 round, nearest, round to the nearest ten,
 hundred, **thousand**
 round up, round down

Addition and subtraction

addition
 add, more, and
 make, sum, total
 altogether
 double
 near double
 half, halve
 one more, two more... ten more... one
 hundred more
 how many more to make ...?
 how many more is ... than ...?
 how much more is ...?
 subtract
 take away
 how many are left/left over?
 how many have gone?
 one less, two less, ten less ... one hundred
 less
 how many fewer is ... than ...?
 how much less is ...?

difference between
 equals
 is the same as
 number bonds/pairs/facts
 missing number
 tens boundary, hundreds boundary
inverse

Multiplication and division

multiplication
 multiply
 multiplied by
 multiple, factor
 groups of
 times
 product
 once, twice, three times ... ten times
 repeated addition
 division
 dividing, divide, divided by, divided into
 left, left over, remainder
 grouping
 sharing, share, share equally
 one each, two each, three each ... ten each
 group in pairs, threes ... tens
 equal groups of
 doubling
 halving
 array
 row, column
 number patterns
 multiplication table
 multiplication fact, division fact
inverse
square, squared
cube, cubed

Fractions (including decimals)

fraction
equivalent fraction
mixed number
numerator, denominator
equal part
equal grouping
equal sharing
parts of a whole
half, two halves
one of two equal parts
quarter, two quarters, three quarters
one of four equal parts
one third, two thirds
one of three equal parts
sixths, sevenths, eighths, tenths ...
hundredths
decimal, decimal fraction, decimal point,
decimal place, decimal equivalent
proportion

MEASUREMENT

measure
measurement
size
compare
unit, standard unit
metric unit
measuring scale, division
guess, estimate
enough, not enough
too much, too little
too many, too few
nearly, close to, about the same as,
approximately
roughly
just over, just under

Length

millimetre, centimetre, metre, kilometre, mile
length, height, width, depth, **breadth**
long, short, tall
high, low
wide, narrow
thick, thin
longer, shorter, taller, higher ... and so on
longest, shortest, tallest, highest ... and so
on
far, further, furthest, near, close
distance apart ... between ... to ... from
edge, perimeter
area, covers
square centimetre (cm²)
ruler
metre stick, tape measure

Weight

mass: big, bigger, small, smaller
weight: heavy/light, heavier/lighter, heaviest/
lightest
kilogram, half kilogram, gram
weigh, weighs, balances
heavy, light
heavier than, lighter than
heaviest, lightest
scales

Capacity and volume

litre, half litre, millilitre
capacity
volume
full
empty
more than
less than
half full
quarter full

holds, contains
 container, **measuring cylinder**

Temperature

temperature
 degree
 centigrade

Time

time
 days of the week, Monday, Tuesday ...
 months of the year (January, February ...)
 seasons: spring, summer, autumn, winter
 day, week, weekend, fortnight, month, year,
leap year, century, **millennium**
 birthday, holiday
 morning, afternoon, evening, night
 bedtime, dinner time, playtime
 today, yesterday, tomorrow
 before, after
 earlier, later
 next, first, last
noon, midnight
 calendar, date, **date of birth**
 now, soon, early, late, earliest, latest
 quick, quicker, quickest, quickly
 slow, slower, slowest, slowly
 old, older, oldest
 new, newer, newest
 takes longer, takes less time
 how long ago?
 how long will it be to ...?
 how long will it take to ...?
 how often?
 always, never, often, sometimes
 usually
 once, twice
 hour, o'clock, half past, quarter past,
 quarter to

5, 10, 15 ... minutes past
 a.m., p.m.
 clock, clock face, watch, hands
 digital/analogue clock/watch, timer
 hour hand, minute hand
 hours, minutes, seconds
timetable, **arrive**, **depart**
 Roman numerals
 12-hour clock time, 24-hour clock time

Money

money
 coin
 penny, pence, pound
 price, cost
 buy, bought, sell, sold
 spend, spent
 pay
 change
 dear, costs more
 cheap, costs less, cheaper
 costs the same as
 how much ...?
 how many ...?
 total

GEOMETRY

Properties of shape

shape, pattern
 flat, **line**
 curved, straight
 round
 hollow, solid
 sort
 make, build, **construct**, draw, **sketch**
 perimeter
centre
 surface

angle, right-angled

base, square-based

size

bigger, larger, smaller

symmetry, symmetrical, symmetrical pattern

line symmetry

reflect, reflection

pattern, repeating pattern

match

regular, irregular

2-D shape

2-D, two-dimensional

corner, side

point, pointed

rectangle (including square), rectangular,

oblong

rectilinear

circle, circular

triangle, triangular

equilateral triangle, isosceles triangle,
scalene triangle

pentagon, pentagonal

hexagon, hexagonal

heptagon

octagon, octagonal

quadrilateral

parallelogram, rhombus, trapezium

polygon

right-angled

parallel, perpendicular

3-D shape

3-D, three-dimensional

face, edge, vertex, vertices

cube, cuboid

pyramid

sphere, hemisphere, spherical

cone

cylinder, cylindrical

prism, triangular prism

tetrahedron, polyhedron

Position and direction

position

over, under, underneath

above, below

top, bottom, side

on, in

outside, inside

around

in front, behind

front, back

beside, next to

opposite

apart

between

middle, edge

centre

corner

direction

journey, route

left, right

up, down

higher, lower

forwards, backwards, sideways

across

next to, close, near, far

along

through

to, from, towards, away from

clockwise, anticlockwise

compass point

north, south, east, west, N, S, E, W

north-east, north-west, south-east,
south-west, NE, NW, SE, SW

horizontal, vertical, diagonal

translate, translation

movement
slide
roll
turn
stretch, bend
whole turn, half turn, quarter turn,
three-quarter turn
rotate, rotation
angle, is a greater/smaller angle than
degree
right angle
acute angle
obtuse angle
reflection
straight line
ruler, set square
angle measurer, compass

STATISTICS

count, tally, sort, vote
survey, questionnaire, data
graph, block graph, pictogram
represent
group, set
list, table, chart, bar chart, frequency table
Carroll diagram, Venn diagram
label, title, axis, axes
diagram
most popular, most common
least popular, least common

GENERAL

pattern
puzzle
problem, problem solving
mental, mentally
what could we try next?
how did you work it out?

show how you ...
explain your thinking
explain your method
describe the pattern
describe the rule
investigate
recognise
describe
draw
compare
sort
greatest value, least value
mental calculation
written calculation
statement
justify
make a statement

NUMBER

Number and place value

Number

number
numeral
zero
one, two, three ... twenty
teens numbers, eleven, twelve ... twenty
twenty-one, twenty-two ... one hundred, two hundred ... one thousand ... ten thousand, hundred thousand, million
none
how many ...?
count, count (up) to, count on (from, to), count back (from, to)
forwards
backwards
count in ones, twos, fives, tens, threes, fours, eights, fifties, sixes, sevens, nines, twenty-fives and so on to hundreds, thousands
equal to
equivalent to
is the same as
more, less
most, least
tally
many
odd, even
multiple of, factor of
factor pair
sequence
continue
predict
few
pattern
pair, rule
relationship

next, consecutive
> greater than
< less than
≥ greater than or equal to
≤ less than or equal to
Roman numerals
integer, positive, negative
above/below zero, minus
negative numbers
formula
divisibility
square number
prime number
ascending/descending order

Place value

ones
tens, hundreds
digit
one-, two- or three-digit number
place, place value
stands for, represents
exchange
the same number as, as many as
more, larger, bigger, greater
fewer, smaller, less
fewest, smallest, least
most, biggest, largest, greatest
one more, ten more, one hundred more, one thousand more
one less, ten less, one hundred less, one thousand less
equal to
compare
order
size
first, second, third ... twentieth
twenty-first, twenty-second ...
last, last but one

before, after
next
between
halfway between
above, below

Estimating

guess
how many ...?
estimate
nearly
roughly
close to
approximate, approximately
about the same as
just over, just under
exact, exactly
too many, too few
enough, not enough
round, nearest, round to the nearest ten,
hundred, thousand, **ten thousand**
round up, round down

Addition and subtraction

addition
add, more, and
make, sum, total
altogether
double
near double
half, halve
one more, two more ... ten more ... one
hundred more
how many more to make ...?
how many more is ... than ...?
how much more is ...?
subtract
take away
how many are left/left over?

how many have gone?
one less, two less, ten less ... one hundred
less
how many fewer is ... than ...?
how much less is ...?
difference between
equals
is the same as
number bonds/pairs/facts
missing number
tens boundary, hundreds boundary, **ones
boundary, tenths boundary**
inverse

Multiplication and division

multiplication
multiply
multiplied by
multiple, factor
groups of
times
product
once, twice, three times ... ten times
repeated addition
division
dividing, divide, divided by, divided into
left, left over, remainder
grouping
sharing, share, share equally
one each, two each, three each ... ten each
group in pairs, threes ... tens
equal groups of
doubling
halving
array
row, column
number patterns
multiplication table
multiplication fact, division fact

inverse
square, squared
cube, cubed

Fractions (including decimals and percentages)

fraction, **proper/improper fraction**
equivalent fraction
mixed number
numerator, denominator
equivalent, reduced to, cancel
equal part
equal grouping
equal sharing
parts of a whole
half, two halves
one of two equal parts
quarter, two quarters, three quarters
one of four equal parts
one third, two thirds
one of three equal parts
sixths, sevenths, eighths, tenths ...
hundredths, **thousandths**
decimal, decimal fraction, decimal point,
decimal place, decimal equivalent
proportion, **in every, for every**
percentage, per cent, %

MEASUREMENT

measure
measurement
size
compare
unit, standard unit
metric unit, **imperial unit**
measuring scale, division
guess, estimate
enough, not enough
too much, too little

too many, too few
nearly, close to, about the same as,
approximately
roughly
just over, just under

Length

millimetre, centimetre, metre, kilometre, mile
length, height, width, depth, breadth
long, short, tall
high, low
wide, narrow
thick, thin
longer, shorter, taller, higher ... and so on
longest, shortest, tallest, highest ... and so on
far, further, furthest, near, close
distance apart ... between ... to ... from
edge, perimeter
area, covers
square centimetre (cm²), **square metre (m²)**,
square millimetre (mm²)
ruler
metre stick, tape measure

Weight

mass: big, bigger, small, smaller
weight: heavy/light, heavier/lighter, heaviest/
lightest
kilogram, half kilogram, gram
weigh, weighs, balances
heavy, light
heavier than, lighter than
heaviest, lightest
scales

Capacity and volume

litre, half litre, millilitre
capacity

volume
full
empty
more than
less than
half full
quarter full
holds, contains
container, measuring cylinder
pint, gallon

Temperature

temperature
degree
centigrade

Time

time
days of the week, Monday, Tuesday ...
months of the year (January, February ...)
seasons: spring, summer, autumn, winter
day, week, weekend, fortnight, month, year,
leap year, century, millennium
birthday, holiday
morning, afternoon, evening, night
bedtime, dinner time, playtime
today, yesterday, tomorrow
before, after
earlier, later
next, first, last
noon, midnight
calendar, date, date of birth
now, soon, early, late, earliest, latest
quick, quicker, quickest, quickly
slow, slower, slowest, slowly
old, older, oldest
new, newer, newest
takes longer, takes less time
how long ago?

how long will it be to ...?
how long will it take to ...?
how often?
always, never, often, sometimes
usually
once, twice
hour, o'clock, half past, quarter past,
quarter to
5, 10, 15 ... minutes past
a.m., p.m.
clock, clock face, watch, hands
digital/analogue clock/watch, timer
hour hand, minute hand
hours, minutes, seconds
timetable, arrive, depart
Roman numerals
12-hour clock time, 24-hour clock time

Money

money
coin
penny, pence, pound
price, cost
buy, bought, sell, sold
spend, spent
pay
change
dear, costs more
cheap, costs less, cheaper
costs the same as
how much ...?
how many ...?
total
discount
currency

GEOMETRY

Properties of shape

shape, pattern

flat, line
curved, straight
round
hollow, solid
sort
make, build, construct, draw, sketch
perimeter
centre, **radius, diameter**
surface
angle, right-angled
congruent
base, square-based
size
bigger, larger, smaller
symmetry, symmetrical, symmetrical pattern
line symmetry
reflect, reflection
axis of symmetry, reflective symmetry
pattern, repeating pattern
match
regular, irregular

2-D shape

2-D, two-dimensional
corner, side
point, pointed
rectangle (including square), rectangular, oblong
rectilinear
circle, circular
triangle, triangular
equilateral triangle, isosceles triangle, scalene triangle
pentagon, pentagonal
hexagon, hexagonal
heptagon
octagon, octagonal
quadrilateral
parallelogram, rhombus, trapezium

polygon
right -angled
parallel, perpendicular
x-axis, y-axis, quadrant

3-D shape

3-D, three-dimensional
face, edge, vertex, vertices
cube, cuboid
pyramid
sphere, hemisphere, spherical
cone
cylinder, cylindrical
prism, triangular prism
tetrahedron, polyhedron
octahedron

Position and direction

position
over, under, underneath
above, below
top, bottom, side
on, in
outside, inside
around
in front, behind
front, back
beside, next to
opposite
apart
between
middle, edge
centre
corner
direction
journey, route
left, right
up, down

higher, lower
forwards, backwards, sideways
across
next to, close, near, far
along
through
to, from, towards, away from
clockwise, anticlockwise
compass point
north, south, east, west, N, S, E, W
north-east, north-west, south-east,
south-west, NE, NW, SE, SW
horizontal, vertical, diagonal
translate, translation

coordinate

movement
slide
roll
turn
stretch, bend
whole turn, half turn, quarter turn,
three-quarter turn
rotate, rotation
angle, is a greater/smaller angle than
degree
right angle
acute angle
obtuse angle
reflection
straight line
ruler, set square
angle measurer, compass, **protractor**

STATISTICS

count, tally, sort, vote
survey, questionnaire, data, **database**
graph, block graph, pictogram
represent
group, set

list, table, chart, bar chart, frequency table,
bar line chart

Carroll diagram, Venn diagram

line graph

label, title, axis, axes

diagram

most popular, most common

least popular, least common

maximum/minimum value

outcome

GENERAL

pattern

puzzle

problem, problem solving

mental, mentally

what could we try next?

how did you work it out?

show how you ...

explain your thinking

explain your method

describe the pattern

describe the rule

investigate

recognise

describe

draw

compare

sort

greatest value, least value

mental calculation

written calculation

statement

justify

make a statement

explain your reasoning

YEAR 6

NUMBER

Number and place value

Number

number
numeral
zero
one, two, three ... twenty
teens numbers, eleven, twelve ... twenty
twenty-one, twenty-two ... one hundred, two hundred ... one thousand ... ten thousand, hundred thousand, million
none
how many ...?
count, count (up) to, count on (from, to), count back (from, to)
forwards
backwards
count in ones, twos, fives, tens, threes, fours, eights, fifties, sixes, sevens, nines, twenty-fives and so on to hundreds, thousands
equal to
equivalent to
is the same as
more, less
most, least
tally
many
odd, even
multiple of, factor of
factor pair
sequence
continue
predict
few
pattern
pair, rule
relationship
next, consecutive
> greater than
< less than

≥ greater than or equal to
≤ less than or equal to
Roman numerals
integer, positive, negative
above/below zero, minus
negative numbers
formula
divisibility
square number
prime number
factorise
prime factor
ascending/descending order
digit total

Place value

ones
tens, hundreds
digit
one-, two- or three-digit number
place, place value
stands for, represents
exchange
the same number as, as many as
more, larger, bigger, greater
fewer, smaller, less
fewest, smallest, least
most, biggest, largest, greatest
one more, ten more, one hundred more, one thousand more
one less, ten less, one hundred less, one thousand less
equal to
compare
order
size
first, second, third ... twentieth
twenty-first, twenty-second ...
last, last but one
before, after
next
between

halfway between
above, below

Estimating

guess
how many ...?
estimate
nearly
roughly
close to
approximate, approximately
about the same as
just over, just under
exact, exactly
too many, too few
enough, not enough
round, nearest, round to the nearest ten,
hundred, thousand, ten thousand
round up, round down

Addition and subtraction

addition
add, more, and
make, sum, total
altogether
double
near double
half, halve
one more, two more ... ten more ... one
hundred more
how many more to make ...?
how many more is ... than ...?
how much more is ...?
subtract
take away
how many are left/left over?
how many have gone?
one less, two less, ten less ... one hundred
less
how many fewer is ... than ...?
how much less is ...?

difference between
equals
is the same as
number bonds/pairs/facts
missing number
tens boundary, hundreds boundary, ones
boundary, tenths boundary
inverse

Multiplication and division

multiplication
multiply
multiplied by
multiple, factor
groups of
times
product
once, twice, three times ... ten times
repeated addition
division
dividing, divide, divided by, divided into
left, left over, remainder
grouping
sharing, share, share equally
one each, two each, three each ... ten each
group in pairs, threes ... tens
equal groups of
doubling
halving
array
row, column
number patterns
multiplication table
multiplication fact, division fact
inverse
square, squared
cube, cubed

Fractions (including decimals, percentages, ratio and proportion)

fraction, proper/improper fraction

equivalent fraction
mixed number
numerator, denominator
equivalent, reduced to, cancel
equal part
equal grouping
equal sharing
parts of a whole
half, two halves
one of two equal parts
quarter, two quarters, three quarters
one of four equal parts
one third, two thirds
one of three equal parts
sixths, sevenths, eighths, tenths ...
hundredths, thousandths
decimal, decimal fraction, decimal point,
decimal place, decimal equivalent
proportion, in every, for every
ratio
percentage, per cent, %

Algebra

formula, **formulae**
equation
unknown
variable

MEASUREMENT

measure
measurement
size
compare
unit, standard unit
metric unit, imperial unit
measuring scale, division
guess, estimate
enough, not enough
too much, too little
too many, too few
nearly, close to, about the same as,

approximately
roughly
just over, just under

Length

centimetre, metre, millimetre, kilometre,
mile, **yard, foot, feet, inch, inches**
length, height, width, depth, breadth
long, short, tall
high, low
wide, narrow
thick, thin
longer, shorter, taller, higher ... and so on
longest, shortest, tallest, highest ... and so
on
far, further, furthest, near, close
distance apart ... between ... to ... from
edge, perimeter, **circumference**
area, covers
square centimetre (cm²), square metre (m²),
square millimetre (mm²)
ruler
metre stick, tape measure

Weight

mass: big, bigger, small, smaller
weight: heavy/light, heavier/lighter, heaviest/
lightest
tonne, kilogram, half kilogram, gram, **pound**,
ounce
weigh, weighs, balances
heavy, light
heavier than, lighter than
heaviest, lightest
scales

Capacity and volume

litre, half litre, millilitre, **centilitre**
cubic centimetres (cm³), **cubic metres (m³)**,
cubic millimetres (mm³), **cubic kilometres**
(km³)
capacity
volume

full
empty
more than
less than
half full
quarter full
holds, contains
container, measuring cylinder
pint, gallon

Temperature

temperature
degree
centigrade

Time

time
days of the week, Monday, Tuesday ...
months of the year (January, February ...)
seasons: spring, summer, autumn, winter
day, week, weekend, fortnight, month, year,
leap year, century, millennium
birthday, holiday
morning, afternoon, evening, night
bedtime, dinner time, playtime
today, yesterday, tomorrow
before, after
earlier, later
next, first, last
noon, midnight
calendar, date, date of birth
now, soon, early, late, earliest, latest
quick, quicker, quickest, quickly
slow, slower, slowest, slowly
old, older, oldest
new, newer, newest
takes longer, takes less time
how long ago?
how long will it be to ...?
how long will it take to ...?

how often?
always, never, often, sometimes
usually
once, twice
hour, o'clock, half past, quarter past,
quarter to
5, 10, 15 ... minutes past
a.m., p.m.
clock, clock face, watch, hands
digital/analogue clock/watch, timer
hour hand, minute hand
hours, minutes, seconds
timetable, arrive, depart
Roman numerals
12-hour clock time, 24-hour clock time
**Greenwich Mean Time, British Summer
Time, International Date Line**

Money

money
coin
penny, pence, pound
price, cost
buy, bought, sell, sold
spend, spent
pay
change
dear, costs more
cheap, costs less, cheaper
costs the same as
how much ...?
how many ...?
total
discount
currency
profit, loss

GEOMETRY

Properties of shape

shape, pattern
flat, line

curved, straight
round
hollow, solid
sort
make, build, construct, draw, sketch
perimeter
centre, radius, diameter
circumference, concentric, arc
net, open, closed
surface
angle, right-angled
congruent
intersecting, intersection
plane
base, square-based
size
bigger, larger, smaller
symmetry, symmetrical, symmetrical pattern
line symmetry
reflect, reflection
axis of symmetry, reflective symmetry
pattern, repeating pattern
match
regular, irregular

2-D shape

2-D, two-dimensional
corner, side
point, pointed
rectangle (including square), rectangular, oblong
rectilinear
circle, circular
triangle, triangular
equilateral triangle, isosceles triangle, scalene triangle
pentagon, pentagonal
hexagon, hexagonal
heptagon
octagon, octagonal
quadrilateral

parallelogram, rhombus, trapezium, kite
polygon
right-angled
parallel, perpendicular
x-axis, y-axis, quadrant

3-D shape

3-D, three-dimensional
face, edge, vertex, vertices
cube, cuboid
pyramid
sphere, hemisphere, spherical
cone
cylinder, cylindrical
prism, triangular prism
tetrahedron, polyhedron
octahedron
dodecahedron
net, open, closed

Position and direction

position
over, under, underneath
above, below
top, bottom, side
on, in
outside, inside
around
in front, behind
front, back
beside, next to
opposite
apart
between
middle, edge
centre
corner
direction
journey, route
left, right
up, down

higher, lower
forwards, backwards, sideways
across
next to, close, near, far
along
through
to, from, towards, away from
clockwise, anticlockwise
compass point
north, south, east, west, N, S, E, W
north-east, north-west, south-east,
south-west, NE, NW, SE, SW
horizontal, vertical, diagonal
translate, translation
coordinate
movement
slide
roll
turn
stretch, bend
whole turn, half turn, quarter turn,
three-quarter turn
rotate, rotation
angle, is a greater/smaller angle than
degree
right angle
acute angle
obtuse angle
reflex angle
reflection
straight line
ruler, set square
angle measurer, compass, protractor

STATISTICS

count, tally, sort, vote
survey, questionnaire, data, database
graph, block graph, pictogram
represent
group, set

list, table, chart, bar chart, frequency table,
bar line chart
Carroll diagram, Venn diagram
line graph
pie chart
label, title, axis, axes
diagram
most popular, most common
least popular, least common
maximum/minimum value
outcome
**mean (mode, median, range as estimates
for this)**
statistics, distribution

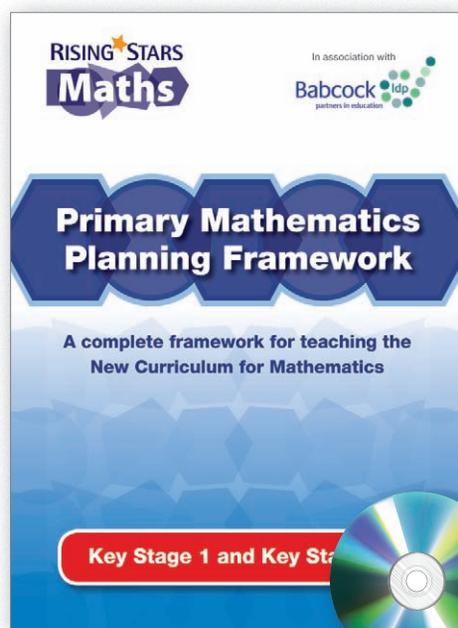
GENERAL

pattern
puzzle
problem, problem solving
mental, mentally
what could we try next?
how did you work it out?
show how you ...
explain your thinking
explain your method
describe the pattern
describe the rule
investigate
recognise
describe
draw
compare
sort
greatest value, least value
mental calculation
written calculation
statement
justify
make a statement
explain your reasoning

Also available from Primary Mathematics Planning Framework



Comprehensive medium-term planning and assessment
for the new National Curriculum for Primary Mathematics

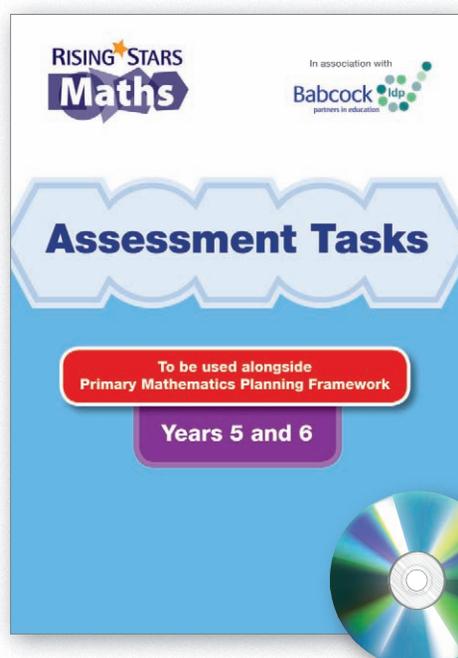


Rising Stars has teamed up with Babcock Learning and Development Partnership (Devon Local Authority), one of the UK's leading school improvement services, to develop a fully planned framework that will help you to deliver the new curriculum with ease and make rich connections across mathematical ideas.

- **Time-saving** – takes all of the effort out of planning for the new curriculum
- **Flexible** – schools can easily edit the pathways to suit their requirements
- **Supportive** – gives schools the confidence to deliver the New Curriculum for Mathematics
- **Cost-effective** – helps schools make the most of existing resources and identify gaps in teacher knowledge



Assessment Tasks

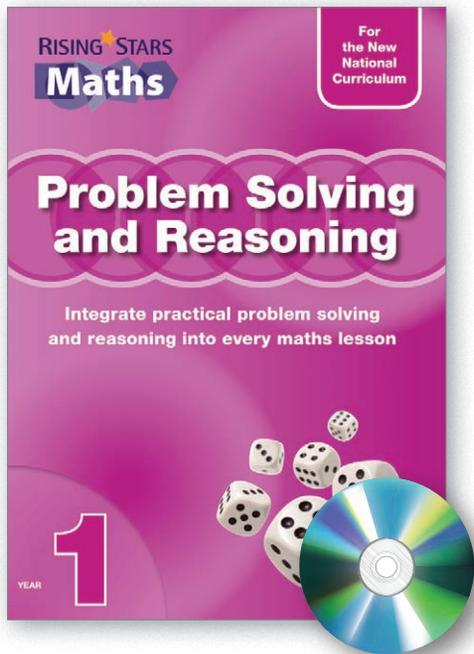


New assessment tasks to support you in assessing pupils' understanding of each objective in the new primary maths curriculum. Three photocopiable books provide 14 assessment tasks for each year linked to the success criteria in each sequence of the Primary Mathematics Planning Framework.

- Designed to be used at the end of the teaching sequence
- Enables identification of those children who have either mastered the content in the sequence or who are still working towards it and need further support
- Includes 'look out for children who ...' guidance to support teachers with early identification of problems with conceptual understanding and remediation
- All assessment tasks are provided in print and on an editable CD-ROM for flexible use across year groups

Also available from

Problem Solving and Reasoning



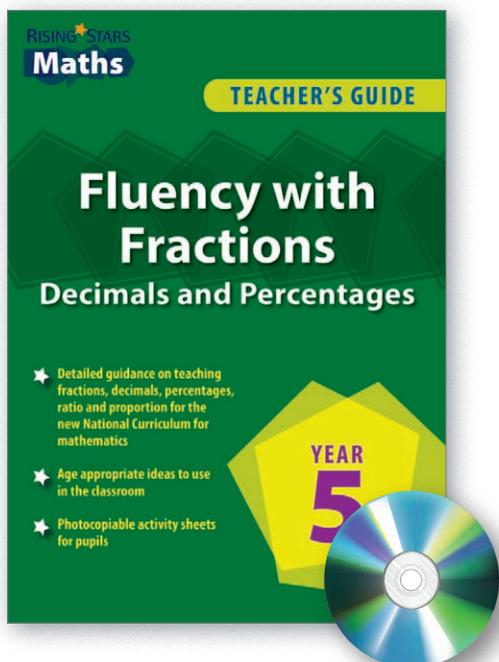
With the renewed emphasis within the new maths curriculum on problem solving and reasoning, this brand new resource will support schools in integrating practical problem solving into their day-to-day teaching.

- Effective strategies and techniques to develop skills across the curriculum
- Key strategies provide practical ideas and questions to embed problem solving and reasoning in every maths lesson
- Each pack includes a bank of investigative activities for pupils to apply their reasoning skills
- Can be used to supplement any existing maths resource

'A fantastic resource to help teachers plan and deliver great lessons involving problem solving and reasoning'

Caroline Clissold, Coordinator for the National Centre for Excellence in the Teaching of Mathematics (NCETM)

Fluency with Fractions

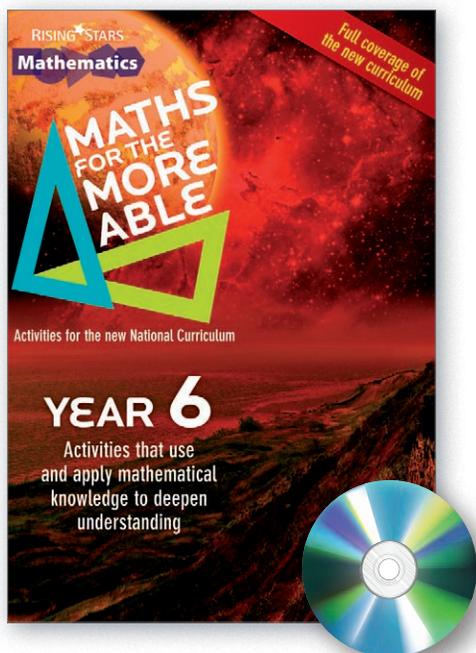


Differentiated activities to promote conceptual understanding and number fluency

- Full coverage of the National Curriculum content
- Easy-to-follow guidance includes clear NC links, prior knowledge requirements and helpful subject knowledge to boost confidence for non-specialists and teaching assistants
- Differentiated activities ensure challenging content can be accessed by all abilities
- References to a wide variety of visual models and images contextualises learning for pupils and helps develop number fluency

CD-ROMs contain editable versions of all the activities

Also available from Maths for the More Able

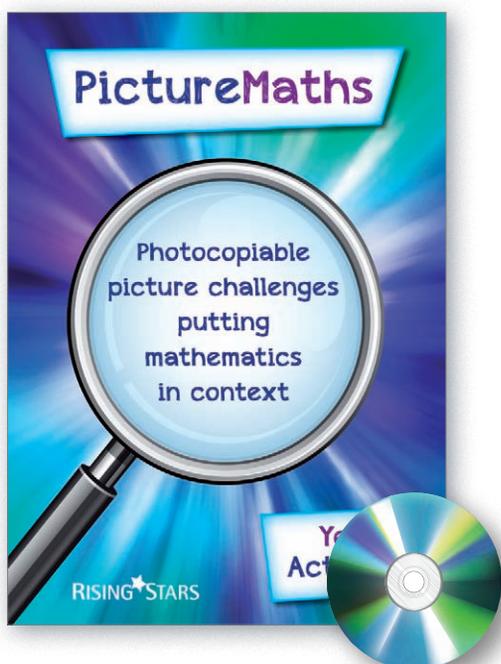


Developed for the new National Curriculum, *Maths for the More Able* is a bank of challenging, space-themed problem-solving activities designed to engage and stretch pupils

- Engage and excite pupils using challenging, space-themed problem-solving activities
- Gain the confidence to stretch your more able pupils in mathematics
- Adapt and edit activities and create your own resources
- Give pupils the opportunity to explore and apply National Curriculum maths content

Published in association with **nace**

Picture Maths

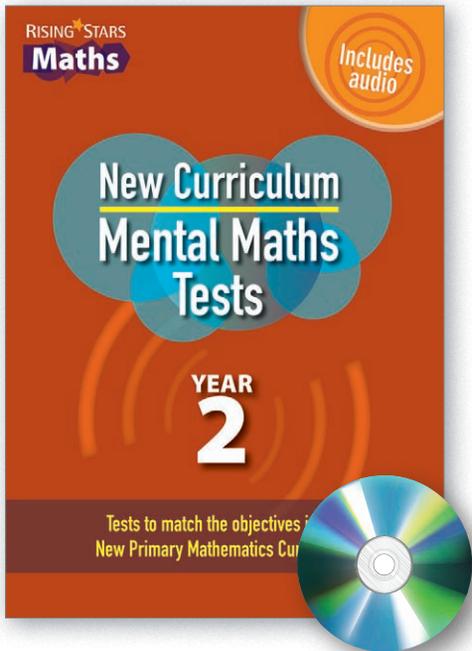


Picture Maths offers a new approach to teaching mathematical problem-solving that will help engage and raise the attainment of visual and reluctant learners using picture-based activities. The tasks develop a deeper level of understanding by putting maths problems into real-life contexts, making maths relevant.

- Teaching ideas to introduce topics in a real-life context
- Photocopiable pupil worksheets using pictures to solve mathematical problems
- Extension and homework activities to challenge and extend learning



Also available from New Curriculum Mental Maths Tests



Fully matched to the new National Curriculum, these brand new packs provide regular, weekly mental maths practice that support children in improving their ability to answer mental maths questions.

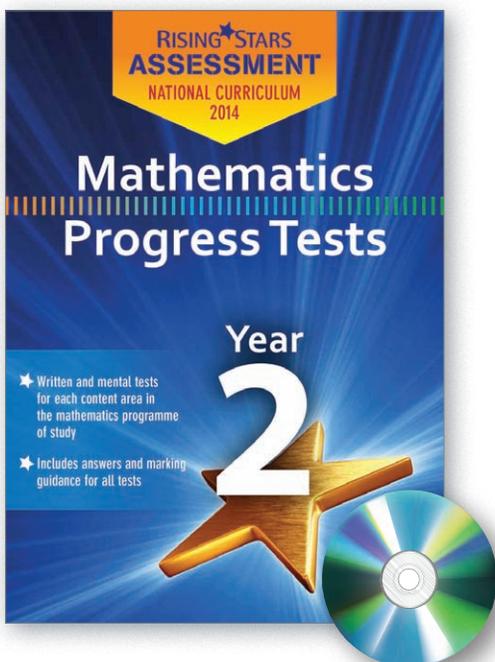
- Weekly tests provide regular mental maths practice
- Written to match the objectives of the new National Curriculum
- Everything you need to ensure your pupils are prepared for the mental maths element of the KS2 National Tests



**'This is exactly what I have been looking for!
There is nothing else like this available.'**

Maggie Brooks, KS2 Coordinator, Royston Primary School

Mathematics Progress Tests



A whole-school approach to support you in assessing mathematics for the new primary curriculum.

- Easily identify strengths and weaknesses to inform teaching
- Assess pupils' learning and demonstrate progress to Ofsted
- CD-ROM includes a unique Progress Tracker to monitor and report on individuals and classes
- Track how pupils are progressing against the topic and their year group
- Supports assessment without levels

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