NUMBER AND ALGEBRA RESOURCES

These resources are available commercially. All other resources (large and small 10 frames, numeral cards, 10 frame buses) are included as printable pages in relevant Teaching Plans and Investigations.

Counters for representing addition, subtraction, groups and arrays, square and triangular numbers - K - 6

Teddies or other animals, for use as group markers - K

Small containers to hold 20 counters (makes classroom management easy) – 1 per student K – 2, about 5 per class Years 3 – 6

Small interlocking cubes, 1cm x 1cm x 1cm, for representing place value (including of decimals) – K – 6

Small containers to hold 40 small interlocking cubes (makes classroom management easy) – 1 per student Years 1 – 6

Large interlocking cubes, 2cm x 2cm x 2cm, for partitioning numbers, finding difference – K, Years 1 and 2, plus small amount for Years 3 – 6

Small paper squares for fractions - K, Years 1 and 2

Small paper circles for fractions - K, Years 1 and 2

Plastic fraction walls, in class sets of 1 per student (grades / classes can share a set), for use after students have constructed their own fraction wall (it is very worth buying the ones that each come in a plastic tray so students pack them back into a fraction wall so no pieces ever get lost) - Years 3 - 6

1cm maths grid books, makes setting out easy, also for area, cubic volume and capacity, constructing graphs and tables - Years 1 - 6

Playing cards - in class sets of approx 15 (1 between 2 students) – Years 1 – 6 (K use numeral cards 0 – 20) (Discount stores are cheaper than catalogues)

Plastic sandwich bags for holding 1 pack of cards each, plus more for holding small 10 frames and numeral cards (buy good quality ones to avoid having to replace them often)

Calculators for patterns, estimating, reasoning in class sets – K – 6

Coins and notes – class sets K, Years 1 and 2, plus small amount for Years 3 – 6









GEOMETRY

Geometric solids - rectangular prisms, square and triangular pyramids, cylinders, cubes, triangular prisms, cones, spheres for features and properties of three-dimensional objects – K – 6, as containers with one open face for cross-sections, volume and capacity – Years 5 – 6

Plastic polygons – circles, triangles, squares, rectangles, kites, trapeziums, rhombuses, pentagons, hexagons, octagons for features and properties of two-dimensional shapes, translating (sliding) rotating (turning) reflecting (flipping), combining and splitting, symmetry and tessellation, symmetry and rotational symmetry, diagonals - K – 6

Transparent polygons as above for combining and splitting - Years 1 – 6

Paper squares and circles for features and properties of two-dimensional shapes, splitting and combining - K – 6

Pattern blocks - for features and properties of two-dimensional shapes, translating (sliding) rotating (turning) reflecting (flipping), combining and splitting - K - 6

Counters – (see Number and Algebra resources) for use as circles for all classes for features and properties of two-dimensional shapes, translating (sliding) rotating (turning) reflecting (flipping), combining and splitting - K – 6

Hoops for grouping shapes and objects – **K**

Matchsticks and short and long pop sticks (see Measurement resources) for constructing two-dimensional shapes - K-6

Protractors for measuring and constructing angles, angle properties of twodimensional shapes – 1 per student in **Years 5 and 6**

Geoboards and elastic bands or digital on individual devices for students to manipulate - Years 1-6

Plasticine / modelling clay for constructing three-dimensional objects, cross-sections and sections - K - 6

Fishing line or plastic knives for cutting modelling clay, including for cross sections and sections - Years 3 – 6

Small interlocking cubes, 1cm x 1cm x 1cm, (see Number and Algebra resources) for constructing models for sketching views - K - 6

Isometric grid paper for sketching views - Years 3 - 6

Dot paper for sketching views - Years 3 - 6

Good quality straws for constructing skeletal models of three-dimensional objects - **Years 5 – 6**

Chenille sticks / pipe cleaners for constructing skeletal models of three-dimensional objects - **Years 5 – 6**

Compass for drawing circles - Year 6









MEASUREMENT RESOURCES

LENGTH	AREA	VOLUME & CAPACITY	MASS	TIME
String for constructing	Pattern blocks (see Geometry	Large and small containers, for example, yogurt, spoons, butter, plastic	Equal arm balances	Analog clocks
lengths, and for	Resources) as informal units	cups, ice cream for measuring and comparing volume and capacity in	for comparing mass	with hands that
measuring curved	for measuring area - Year 1	informal units - K – 2 and in mL and L - Years 3 – 6	directly and	move in sync –
lengths - K – 6	Plastic squares 2cm x 2cm for	Children's blocks shaped as cubes, rectangular prisms, cylinders,	indirectly in	for reading time
Pop sticks. long and	measuring area in informal	triangular prisms, pyramids, and marbles for packing rectangular	informal units - K –	K – 3
short match sticks, long	units - Years 1 & 2	containers using informal units to identify cube is best - Year 1	2 and in g and kg -	Stop watches for
and short paper clips for	Plastic squares 1cm x 1cm for	Cubes - 2cm x 2cm for measuring and comparing capacity using	Years 3 – 6	teacher for
measuring and	measuring area in square	informal units - Years 1 & 2	Scales for	estimating
comparing length in	centimetres – Years 3 & 4		measuring mass in g	duration in
informal units - K – 2	(hard to source but currently	Cubes - 1cm x 1cm x 1cm for measuring and comparing capacity using cubic centimetres - Years 3 & 4	and kg, and for	seconds,
paper squares and	available from		identifying	minutes and
circles, plastic polygons	www.cleverpatch.com.au	1 L measuring jugs in 50 mL increments starting at 50 mL for measuring	relationship	hours - Year 2 –
(see Geometry	paper squares and circles,	volume and capacity using mL and L - Years 3 & 4	between liquid	for students for
Resources) for measuring	plastic polygons (see	50 - 70mL miniature measuring cups - in 5 mL increments starting at 5 mL	volume & capacity	timing duration
length and perimeter -	Geometry Resources) for	- for measuring volume and capacity using mL, and for identifying the		in seconds and
Years 1 – 6	measuring and comparing	relationship between cubic centimetres and millilitres - Years 3 – 6	Years 4 – 6	minutes - Year 4
)	area - K – 6	Chenille sticks / pipe cleaners and straws (see Geometry resources) for		
		constructing cubic metres - Year 5		
Plasticine/modelling clay for constructing lengths and for constructing objects to measure volume of using displacement - K				

Plasticine/modelling clay for constructing lengths and for constructing objects to measure volume of using displacement - K

1cm grid maths books (see Number and Algebra resources) for recording length in centimetres - Years 3 – 6

Rulers with centimetres - 1 per student - Year 2

Rulers with centimetres and millimetres - 1 per student - Years 3 - 6

1 metre tape measures with cm and mm for measuring lengths, constructing square and cubic metres - 1 per student - Years 3 - 6

Metre ruler or tape measure with cm and mm, and with alternate 10 centimetre blocks in black and white for relating metric length to multiplicative place value - 1 per class, Years 3 – 6

Trundle wheels or device app for measuring length in metres and kilometres, area in hectares and square kilometres - Years 5 – 6

Small interlocking cubes, 1cm x 1cm x 1cm, (see Number and Algebra resources) for constructing models for finding volume, identifying relationship between cubic centimetres

LEARNING PLACE

TEACHING PLACE

and millilitres - Years 3 – 6





