

AMENDED TEACHING YEAR PLAN FOR 2021: TERM 3

TOPICS	GRADE 4	GRADE 5	GRADE 6	GRADE 7
COMMON FRACTIONS: Describing and ordering fractions	<ul style="list-style-type: none"> compare and order fractions of different denominators (halves, thirds, quarters, fifths, sixths, sevenths, eighths) Describe and compare common fractions in diagram form. 	<ul style="list-style-type: none"> Count forwards and backwards in fractions Compare and order common fractions to at least twelfths 	X	X
COMMON FRACTIONS: Calculations with fractions	<ul style="list-style-type: none"> Recognize, describe and use the equivalence of division and fractions Addition of common fractions with same denominators. 	<ul style="list-style-type: none"> Addition and subtraction of common fractions with same denominator Addition and subtraction of mixed numbers fractions of whole numbers Fractions of whole which result in whole numbers Recognise, describe and use the equivalence of division and fractions 	X	X
COMMON FRACTIONS: Solving problems	Solve problems in contexts involving fractions, including grouping and equal sharing.	Solve problems in contexts involving common fractions, including grouping and sharing	X	X
COMMON FRACTIONS: Equivalent forms	Recognize and use equivalent forms of common fractions with denominators which are multiples of each other)	Recognize and use equivalent forms of common fractions with denominators which are multiples of each other	X	X
TIME: Reading time and time instruments	<ul style="list-style-type: none"> Read, tell and write time in 12-hour and 24-hour formats on both analogue and digital instruments in: hours; minutes; seconds Instruments: clocks and watches 	X	X	X
TIME:	Reading calendars	X	X	X
TIME: Calculations and problem-solving time include	<ul style="list-style-type: none"> problems in contexts involving time calculation of the number of days between any two dates within the same or consecutive years calculation of time intervals where time is given in minutes or hours 	X	X	X
LENGTH: Practical measuring	<ul style="list-style-type: none"> Estimate and practically measure 2-D shapes and 3-D objects using measuring instruments such as: rulers; metre sticks; tape measures; trundle wheels Record, compare and order lengths of shapes and objects in mm, cm, m, km 	<ul style="list-style-type: none"> Estimate and practically measure 2-D shapes and 3-D objects using measuring instruments such as: rulers; metre sticks; tape measures; trundle wheels Record, compare and order lengths of shapes and objects in mm, cm, m, km 	<ul style="list-style-type: none"> Estimate and practically measure 2-D shapes and 3-D objects using measuring instruments such as: rulers; metre sticks; tape measures; trundle wheels Record, compare and order lengths of shapes and objects in mm, cm, m, km 	X

	<ul style="list-style-type: none"> • Conversions limited to whole numbers and common fractions 	<ul style="list-style-type: none"> • Conversions limited to whole numbers and common fractions 	<ul style="list-style-type: none"> • Conversions limited to whole numbers and common fractions 	
LENGTH: Calculations and problem-solving	<ul style="list-style-type: none"> • Solve problems in contexts involving length • Convert between: mm and cm, cm and m, m and km 	<ul style="list-style-type: none"> • Solve problems in contexts involving length • Convert between: mm and cm, cm and m, m and km 	<ul style="list-style-type: none"> • Solve problems in contexts involving length • Convert between: mm and cm, cm and m, m and km 	X
PROPERTIES OF 2-D SHAPES: [grade 4 – 6] Range of shapes	X	<ul style="list-style-type: none"> • Recognize, visualize and name 2-D shapes in the environment and geometric setting, focusing on: <ul style="list-style-type: none"> - regular and irregular polygons - triangles, - squares, rectangles, other quadrilaterals, pentagons, hexagons, heptagons • circles • similarities and differences between squares and rectangles 	<ul style="list-style-type: none"> • Regular and irregular polygons: triangles, squares, rectangles, parallelograms, other quadrilaterals, pentagons, hexagons, heptagons, octagons • Similarities and differences between rectangles and parallelograms 	X
PROPERTIES OF 2-D SHAPES: Characteristics [features] of shapes: Grade 4 – 6 Classifying 2-D shapes: Grade 7	Describe, sort and compare 2-D shapes in terms of: <ul style="list-style-type: none"> - straight and curved sides; - number of sides 	Describe, sort and compare 2-D shapes in terms of: <ul style="list-style-type: none"> - straight and curved sides - number of sides - lengths of sides - angles in shapes, limited to: [right angles; angles smaller than right angles; angles greater than right angles] 	<ul style="list-style-type: none"> • Describe, sort and compare 2-D shapes in terms of: <ul style="list-style-type: none"> – number of sides – length of sides – size of angles [acute; right; obtuse; straight; reflex; revolution] 	<ul style="list-style-type: none"> • Describe, sort, name and compare triangles according to their sides and angles, focussing on: <ul style="list-style-type: none"> – equilateral triangles – isosceles triangles – right-angled triangles • Describe, sort, name and compare quadrilaterals in terms of: <ul style="list-style-type: none"> – length of sides – parallel and perpendicular sides – size of angles (right angles or not)
PROPERTIES OF 2-D SHAPES: Further activities	Draw 2-D shapes on grid paper	Further 2-D shapes on grid paper	<ul style="list-style-type: none"> • Draw 2-D shapes on grid paper • Draw circles, patterns in circles and patterns with circles using a pair of compasses 	X
PROPERTIES OF 2-D SHAPES: Angles	X	Recognize and describe angles in 2-D shapes: [right angles; angles; smaller than right angles; angles greater than right angles]	Recognize and name the following angles in 2-D shapes: [acute; right; obtuse; straight; reflex; revolution]	X
PROPERTIES OF 2D SHAPES: Similar and congruent 2-D shapes	X	X	X	<ul style="list-style-type: none"> • Recognise and describe similar and congruent figures by comparing: <ul style="list-style-type: none"> – shape; size
PROPERTIES OF 2-D SHAPES: Solving problems	X	X	X	<ul style="list-style-type: none"> • Solve simple geometric problems involving unknown sides and angles in triangles and quadrilaterals, using known properties

SYMMETRY	Recognize, draw and describe line(s) of symmetry in 2-D shapes	Recognize, draw and describe line(s) of symmetry in 2-D shapes	X	X
TRANSFORMATIONS: Describing patterns	X	X	Refer to lines, 2-D shapes, 3-D objects and/or lines of symmetry and/or rotations and/or reflections and/or translations when describing patterns in nature; from modern everyday life from our cultural heritage	X
TRANSFORMATIONS: Enlargement and reduction	X	X	Draw enlargement and reductions of 2-D shapes to compare size and shape of triangles; quadrilaterals	X
TRANSFORMATIONS: Build composite shapes	Put 2-D shapes together to make different composite 2-D shapes including some shapes with line symmetry.	Make composite 2-D shapes including shapes with line symmetry by tracing and moving a 2-D shape in one or more of the following ways by rotation, translation and reflection		X
TRANSFORMATIONS: Tessellations	Pack out 2-D shapes to make tessellated patterns including some patterns with line symmetry.	Make tessellation patterns including some patterns with line symmetry by tracing and moving a 2-D shape in one or more of the following ways by rotation, translation and reflection		X
TRANSFORMATIONS: Describe patterns	Refer to lines, 2-D shapes, 3-D objects and lines of symmetry when describing patterns in nature; from modern everyday life; our cultural heritage	Refer to lines, 2-D shapes, 3-D objects, lines of symmetry, rotations, reflections and translations when describing patterns.		X
TRANSFORMATION GEOMETRY Transformations				<ul style="list-style-type: none"> Recognize, describe and perform translations, reflections and rotations with geometric figures and shapes on squared paper Identify and draw lines of symmetry in geometric figures
TRANSFORMATION GEOMETRY Enlargements and reductions				<ul style="list-style-type: none"> Draw enlargements and reductions of geometric figures on squared paper and compare them in terms of shape and size
PROPERTIES OF 3-D OBJECTS: Range of objects	X	<ul style="list-style-type: none"> Recognize, visualize and name 3-D objects in the environment and geometric settings, focusing on: [rectangular prisms and other prisms; cubes; cones; cylinders; pyramids; similarities and differences between cubes and rectangular prisms 	<ul style="list-style-type: none"> Recognize, visualize and name 3-D objects in the environment and geometric settings, focusing on: [rectangular prisms and other prisms; cubes; cones; cylinders; pyramids; similarities and differences between cubes and rectangular prisms 	X
PROPERTIES OF 3-D OBJECTS: Characteristics of objects	X	Describe, sort and compare 3-D objects in terms of <ul style="list-style-type: none"> shape of faces number of faces flat and curved surfaces 	Describe, sort and compare 3-D objects in terms of the number of: <ul style="list-style-type: none"> shape of faces; verticesedges 	X

PROPERTIES OF 3-D OBJECTS: Further activities	X	<ul style="list-style-type: none"> • Make 3-D models using cut out polygons • Cut open boxes to trace and describe their nets 	<ul style="list-style-type: none"> • Make 3-D models using: drinking straws, toothpicks etc. • nets 	X
AREA, PERIMETER AND VOLUME Perimeter	X	X	Measure perimeter using rulers or measuring tapes	X
AREA, PERIMETER AND VOLUME Measurement of area	X	X	<ul style="list-style-type: none"> • Continue to find areas of regular and irregular shapes by counting squares on grids • Develop rules for calculating the areas of squares and rectangles 	X
AREA, PERIMETER AND VOLUME Measurement of volume	X	X	<ul style="list-style-type: none"> • Continue to find volume/capacity of objects by packing or filling them • Develop an understanding of why the volume of rectangular prisms is given by length multiplied by width multiplied by height 	X
AREA, PERIMETER AND VOLUME Investigate	X	X	<ul style="list-style-type: none"> • Relationship between perimeter and area of rectangles and squares. • Relationship between surface area and volume of rectangular prisms 	X
CAPACITY AND VOLUME Practical Measuring	X	X	<ul style="list-style-type: none"> • Estimate and practically measure 3-D objects using measuring instruments such as measuring spoons; measuring cups; measuring jugs • Record, compare and order capacity and volume of 3D objects in ml, l and kl 	X
CAPACITY AND VOLUME Calculations and problem- solving	X	X	<ul style="list-style-type: none"> • Solve problems in contexts involving capacity/volume • Convert between kl, l and ml to include fraction and decimal forms (to 2 decimal places) 	X
ALGEBRAIC EXPRESSIONS	X	X		<ul style="list-style-type: none"> • Recognise and interpret rules or relationships represented in symbolic form • Identify variables and constants in given formulae and equations
ALGEBRAIC EQUATIONS Number sentences	X	X	X	<ul style="list-style-type: none"> • Write number sentences to describe problem situations • Analyse and interpret number sentences that describe a given situation • Identify variables and constants in given formulae or equations • Solve and complete number sentences by: <ul style="list-style-type: none"> – Inspection; trial and improvement • Solve equations by substitution

CONSTRUCTION OF GEOMETRIC FIGURES Measuring angles	X	X	X	<ul style="list-style-type: none"> • Accurately use a protractor to measure and classify angles: <ul style="list-style-type: none"> – $< 90^\circ$ (acute angles) – Right-angles – $> 90^\circ$ (obtuse angles) – Straight angles – $> 180^\circ$ but less than 360° (reflex angles)
CONSTRUCTION OF GEOMETRIC FIGURES Constructions	X	X	X	PROVIDE LEARNERS WITH ACCURATELY CONSTRUCTED FIGURES <ul style="list-style-type: none"> • Accurately construct geometric figures appropriately using a compass, ruler and protractor, including: <ul style="list-style-type: none"> – angles, to one degree of accuracy – circles – parallel lines – perpendicular lines • Describe and name parts of a circle
CONSTRUCTION OF GEOMETRIC FIGURES GEOMETRY OF STRAIGHT LINES	X	X	X	Define: <ul style="list-style-type: none"> • Line segment • Ray • Straight line • Parallel lines • Perpendicular lines
REVISION	REVISION	REVISION	REVISION	REVISION
	FORMAL ASSESSMENT TASK TEST [ALL TOPICS]	FORMAL ASSESSMENT TASK TEST [ALL TOPICS]	FORMAL ASSESSMENT TASK TEST [ALL TOPICS]	FORMAL ASSESSMENT TASK TEST [ALL TOPICS]