

# Province of the Eastern Cape

## DEPARTMENT OF EDUCATION

**Chief Directorate: Curriculum Management**

***Siyasebenzisana* • *Working Together* • *Samewerking***

 **MATHEMATICS GRADE 7: TERM 2 TEACHING PLAN 2020**

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| **TERM 2** | **GRADE 7 - TEACHING PLANNING FOR TERM 2** |
| **Week 1: 31 Mar****4 day week** | **Week 2: 6 Apr** | **Week 3: 14 Apr** | **Week 4: 20 Apr** | **Week 5 28 Apr (1 May) Week 6 4 May** | **Week 7: 11 May: Week 8 18 May** |  |
| **Topics** | **REVISION****GEOMETRY OF 2D SHAPES:*** Distinguish between triangles, quadrilaterals and circles; use some properties to draw some of these shapes
* Different types of triangles:
* Recognise, describe, sort, name and compare triangles according to their sides and use properties to find unknown values in equilateral triangles, isosceles triangles and right-angled triangles
* Different types of quadrilaterals:
* Describe, sort, name and compare different quadrilaterals in terms of length of sides, parallel and perpendicular sides, size of angles (right angles or not); find unknown sides in quadrilaterals
* Circles: Describe and name parts of a circle
* Similar and congruent shapes:
* Recognise and describe similar and congruent figures by comparing shape and size
 | **Common Fractions****Decimal Fractions****Functions and Relationships** | **AREA AND PERIMETER:*** **Perimeter**
* Use appropriate formulae to calculate
* perimeter of a square perimeter of a rectangle Triangles (No formulae)
* **Area**
* Use appropriate formulae to calculate:
	+ area of a square
	+ area of a rectangle
	+ area of a triangle
* **Solving problems**
* Solve problems involving perimeter and area of polygons
* **Calculate t**o at least 1 decimal place
* **Use and convert** between appropriate SI units
* **Solving equations** using formulae
 | **SURFACE AREA AND VOLUME OF 3D OBJECTS:****•** Surface area and volume• Use appropriate formulae to calculate • the volume of a prism• the surface area of a prism• the volume of a cube• the volume of a rectangular prism• Describe the interrelationship between surface area and volume of the objects mentioned above• Solve problems involving surface area, volume and capacity• Convert between appropriate SI units• Use equivalence between units when• solving problems• Investigate the nets of cubes and rectangular prisms in order to deduce formulae for calculating their surface areas. | EXPONENTS:• The exponential notation: The meaning of the concepts exponential notation, power, base and exponent/index• Squares and cubes:o Calculating squares and cubes • Square root and the cube root:o Calculating square roots and cube roots • Comparing numbers in exponential form:o Random numbers in exponential form arranged in ascending and descending order Calculations: Performing calculations with exponents, square roots and cube roots | **Revision and****exam:****P1 & P 2** |
| **Nat work book** | **Vol 1: p. 58** | **Vol 2: p. 50** | **Vol 1: p. 118** | **Vol 1: p. 122 - 144** | **Vol 1: p. 28** |  |



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**MATHEMATICS GRADE 8: TERM 2 TEACHING PLAN 2020**

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| **TERM 2** | **GRADE 8 - TEACHING PLANNING FOR TERM 2** |
| **Week 1****31 Mar****4 day week** | **Week 2****6 Apr** | **Week 3****14 Apr** | **Week 4****20 Apr** | **Week 5****28 Apr** **(1 May)** | **Week 6****4 May** | **Week 7****11 May** | **Week 8** **18 May** | **Week 9 - 11:****25 May - 12 Jun** |
| **Topics** | **Algebraic expressions** | **Algebraic equations (H)****Focus is on:** solving equations using additive and multiplicative inverses**Exponential equations** | **Constructions (L)** Construct geometric figures **using a compass, ruler & protractor**;Construct angles of 30°, 45° and 60° **without using a** **protractor;** **Investigating, by construction,** the properties oftriangles and quadrilaterals | **Geometry of straight lines (H)****Angle relationships:**Recognise & describe pairs of angles formed by - perpendicular lines- intersecting line- parallel lines cut by a transversalProblem solving- Solve geometric problems using the relationship between pairs of angles as described above | **Geometry of 2D shapes (M)**Identify and define triangles andquadrilateralsIdentify and describe properties of congruent and similar shapesProblem solving Solving geometric problems with unknown sides and angles in triangles & quadrilaterals | **Revision****Numeric and geometric** **patterns (L)**Investigate and extend numeric and geometric patterns;Describe and justify the general rule | **REVISION****Functions and relationships (H)**Focus is on practising operations with integers, orincluding integers in the rules for finding output values | **EXAMS** |
| **Nat work****books** | **Vol 1: p. 62 - 96** | **Vol 1: p. 62 - 96** | **Vol 1: p. 106** | **Vol 1: p. 132** | **Vol 1: p. 118** | **Vol 2: p. 120** | **Vol 1: p. 112** |  |
|  | **REVISION SHOULD BE DONE CONTINUOUSLY THROUGHOUT THE TERM AND YEAR** |  |
| **SBA** |  |  |  | **Exam on semester’s work –** **2 papers** |



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**MATHEMATICS: GRADE 9: TERM 2 TEACHING PLAN 2020**

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| **TERM 2** |
| **Weeks** | **WEEK 1****31 Mar****(4 days)** | **WEEK 2****6 April** | **WEEK 3****14 April** | **WEEK 4****20 April****(4 days)** | **WEEK 5****28 April****(4 days)** | **WEEK 6****4 May** | **WEEK 7****11 May** | **WEEK 8****18 May** |  **WEEK 9- 11 25 May**  |
| **Topics** | **Algebraic Equations (H)****Linear Equations** * Solving Linear Equations **including fractions** by:
* Inspection
* Additive and Multiplicative Inverses
* Exponentials
* Word problems (linear)

**Quadratic equations*** Solving Quadratic equations (incl. diff of squares, $a.b=0$)
* Problem Solving
 | **Constructions (L)**Revise Grade 8 Constructions**Geometry of 2D shapes** * Revise Gr 8 Geometry – Triangles
* Use constructions to investigate minimum conditions for Congruency and Similarity of triangles
* Problem solving on Congruency and Similarity
 | **Straight Line Geometry (H)**Angle pairs – consolidation of Gr 8 work12**Applications:*** Intersecting lines; $⊥$ lines cut & $∥$ lines cut by transversal.
* Problem solving
 | **Pythagoras (H)*** Develop theorem
* Calculate the unknown side

(Leave irrational answers in surd form)* Determine if a triangle is right-angled given 3 lengths of sides
 | **June Exam**Area andPerimeter of 2DShapes* Use appropriate formulae and

conversions between SI units,to solve problems and calculateperimeter and area of:-- polygons-- circles* Investigate how doubling any or all of the dimensions of a 2D figure affects its perimeter and its area
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| **Nat workbook** | **Vol 1: p. 94** | **Vol 1: p 96** | **Vol 1: p. 142** | **Vol 1: p. 156** |  |
|  | **REVISION MUST BE DONE THROUGHOUT THE TERM AND YEAR** |