

# 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 transversal  Problem solving  - Solve geometric problems using the relationship between pairs of angles as described above | | **Geometry of 2D shapes (M)**  Identify and define triangles and  quadrilaterals  Identify and describe properties of congruent and similar shapes  Problem 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, or  including  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, ) * 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 and  Perimeter of 2D  Shapes   * Use appropriate formulae and   conversions between SI units,  to solve problems and calculate  perimeter and area of:  -- polygons  -- circles   * Investigate how doubling any or all of the dimensions of a 2D figure affects its perimeter and its area |
| **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** | | | | | | | | |