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**Mathematics TERM 2 2020, Work for week 1 and week 2**

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| **Grade** | **Week** | **Topic** | **Concepts and skills** | **Activity in 2019 DBE Workbook** |
| 4 | Week 1 | **Whole numbers: Addition and subtraction** | **Addition and subtraction of whole numbers of at least 4-digits.**  **Commutative and associative properties of whole numbers**  **Solve problems with whole numbers** | **Workbook Activity 26, 30, 31, 32, 33** |
| 4 | Week 2 | **Common fractions** | ***Solving problems***  Solve problems involving fractions, including grouping and equal  sharing  ***Describing and ordering fractions***  ***Calculations with fractions:***  Addition of common fractions with same denominators  ***Equivalent forms:***  Common fractions (denominators which are multiples of each other) | **Workbook Activity 34,35 36** |
| 5 | Week 1 | **Whole numbers: Addition and subtraction** | ***Number range for calculations***  Addition and subtraction of whole numbers with at least 5-digit numbers  ***Calculation techniques***  • estimation  • adding and subtracting in columns  • building up and breaking down numbers  • using a number line  • rounding off and compensating  • doubling and halving  • using addition and subtraction as inverse operations  ***Properties of whole numbers***  • Recognize and use the commutative; associative; distributive properties of whole numbers  • 0 in terms of its additive property  • 1 in terms of its multiplicative property | **Workbook Activity 28 29, 30 31** |
|  | Week 2 | **Common fractions** | • Describing and ordering fractions  • Count forwards and backwards in fractions  • Compare and order common fractions to at least twelfths  ***Calculations with fractions***  • Addition of common fractions with the same denominator  • Recognize, describe and use the equivalence of division and fractions  ***Solving problems***  ***Equivalent forms:***  Common fractions with denominators which are multiples of each other. | **Workbook Activity 35, 36 ,37 38, 39** |
| 6 | Week 1 | **Whole numbers:**  **Counting,**  **ordering,**  **comparing,**  **representing**  **and place**  **value of digits** | **- Order, compare and represent numbers to at least 9-digit numbers**  **- Represent prime numbers to at least 100**  **- Place value of digits in whole numbers to at least 9-digit numbers**  **- Round off to the nearest 5, 10, 100 and 1 000** | **Workbook Activity 25, 26 27** |
|  | Week 2 | **Whole numbers: Multiplication (4-digit by 2-digit)** | • Order, compare and represent numbers to at least 9-digit numbers  • prime numbers to at least 100  • place value of digits  • Round off to the nearest 5, 10, 100or 1 000  • Multiplication of at least whole 4-digit by 3-digit numbers  • Multiple operations on whole numbers with or without brackets  ***Calculation techniques include***  • estimation  • multiplying in columns  • building up and breaking down numbers  • rounding off and compensating  ***Number range for multiples and factors***  • Multiples of 2-digit and 3-digit numbers  • Factors of 2-digit and 3-digit whole numbers  • Prime factors of numbers to at least 100  ***Properties of whole numbers***  • Recognize and use the commutative; associative; distributive properties of whole numbers  • 0 in terms of its additive property  • 1 in terms of its multiplicative property | **Workbook Activity 29, 30, 31, 32** |
| 7 | Week 1 | **Common Fractions** | **Ordering, comparing and simplifying**  **fractions**  • Compare and order common fractions, tenths hundredths, and thousandths  **Calculations using fractions**  • addition and subtraction of common fractions,  • Addition and subtraction of fractions where one denominator is not a multiple of the other  • Multiplication of common fractions, including mixed numbers,  **Calculation techniques**  • Mixed numbers and common fractions  • Multiples and factors to write fractions in the simplest form  • Equivalent fractions to add and subtract common fractions | **Workbook Activity 30, 31, 32, 33, 34, 35, 36, 37** |
|  | Week 2 | **Common Fractions** | **Solving problems**  • Common fractions and mixed numbers  **Percentages**  • Calculate the percentage of part of a whole  • Calculate percentage increase or decrease of whole numbers  • Solve problems in contexts involving percentages  **Equivalent forms**  • common fractions with 1-digit or 2-digit denominators (fractions where one denominator is a multiple of the other)  • common fraction, decimal fraction and percentages | **Workbook Activity 38, 39, 40, 41, 42, 43** |
| 8 | Week 1 | **ALGEBRAIC EXPRESSIONS** | **Algebraic language**  • Variables and constants  • Like and unlike terms  • Coefficients and exponents  **Expand and simplify algebraic expressions**  Use commutative, associative and distributive laws for rational numbers  and laws of exponents  • Multiply integers and monomials by:  -- monomials  -- binomials  -- trinomials  • Divide the following by integers or  monomials:  -- monomials  -- binomials  -- trinomials | **Workbook Activity 39, 40, 41, 42, 43, 44** |
|  | Week 2 | **Algebraic expressions** | **Algebraic language**  • Variables and constants  • Like and unlike terms  • Coefficients and exponents  **Expand and simplify algebraic expressions**  Use commutative, associative and distributive laws for rational numbers  and laws of exponents  • Multiply integers and monomials by:  -- monomials  -- binomials  -- trinomials  • Divide the following by integers or  monomials:  -- monomials  -- binomials  -- trinomials | **Workbook Activity 39 40, 41, 42, 43, 44** |
| 9 | Week 1 | **GEOMETRY OF 2D SHAPES** | **Classifying 2D shapes**  • Properties and definitions of triangles in terms of their sides and angles  -- equilateral triangles  -- isosceles triangles  -- right-angled triangles  • Definitions of quadrilaterals in terms of their sides, angles and diagonals  -- parallelogram  -- rectangle  -- square  -- rhombus  -- trapezium  -- kite  **Similar and congruent triangles**  • Conditions for congruent triangles  • Conditions for similar triangles  **Solving problems**  Solve geometric problems involving unknown sides and angles in triangles and quadrilaterals | **Workbook Activity 48, 49, 50, 51, 52** |
|  | Week 2 | **GEOMETRY OF 2D SHAPES** | **Classifying 2D shapes**  • Properties and definitions of triangles in terms of their sides and angles  -- equilateral triangles  -- isosceles triangles  -- right-angled triangles  • Definitions of quadrilaterals in terms of their sides, angles and diagonals  -- parallelogram  -- rectangle  -- square  -- rhombus  -- trapezium  -- kite  **Similar and congruent triangles**  • Conditions for congruent triangles  • Conditions for similar triangles  **Solving problems**  Solve geometric problems involving unknown sides and angles in triangles and quadrilaterals | **Workbook Activity 48, 49, 50, 51 52** |