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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 equalsharing***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 numbersand laws of exponents• Multiply integers and monomials by:-- monomials-- binomials-- trinomials• Divide the following by integers ormonomials:-- 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 numbersand laws of exponents• Multiply integers and monomials by:-- monomials-- binomials-- trinomials• Divide the following by integers ormonomials:-- 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** |