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| **YEAR 7 CURRICULUM MEDIUM TERM PLAN - MATHS** |  | red rose badgepng |
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| **TOPIC** | **KEY LEARNING** | **ASSESSMENT** |
| HT 1: Place Value  HT 1: Calculations | Reading & writing numbers in figures up to millions. Converting between fractions and decimals using place value structure. Recognising different types of decimals and using recurring decimal dot notation. Using inequality symbols to order & compare decimals and fractions. Rounding to nearest integer, decimal places or significant figures.  Using column method to add & subtract with decimals. Using short division to convert fractions & decimals. Multiply and divide by 10,100,1000 and 0.1,0.01, 0.001 . Multiply decimals. Divide by 0.5, 0.1, 0.01 and 0 . Dividing decimals. | Assessment on:  Baseline Test  Calculations |
| HT 2: Negatives | Ordering negative numbers. Calculate additions and subtractions by considering the number line. Add & subtract negative numbers. Multiply and divide negative numbers. Use negatives with all 4 operations. | Assessment on:  Negatives |
| HT 3: Fractions  HT3: Indices | Fraction notation. Mixed number and Improper fractions. Finding fractions of amounts. Finding equivalent fractions. Simplifying fractions. Converting fractions and decimals. Add, subtract, multiply and divide fractions. Mixed numbers. Calculating with fractions decimals and negatives.  Index notation. Zero and negative indices, Laws of indices. Roots including square and cube numbers. Order of operations. | Assessment on:  Fractions  Indices |
| HT4: Algebra | Collecting like terms. Multiplying variables using index notation and laws of indices. Reading & writing Algebra. Substitution of positive and negative numbers into expressions. Solving equations in 1 and 2 steps | Assessment on:  Algebra |
| HT 5: Measures  HT 5: Shape, Area and Pythagoras | Estimation and error intervals. Standard form. Estimating and converting metric lengths. Calculate perimeters of shapes including circles solve equations involving perimeter. Convert between units of time. Calculate speeds distance and time.  Recognise properties of shapes. Use units for area and convert between them. Find areas of regular 2d shapes, circles and compound area. Use Pythagoras’ theorem to find diagonal lengths. | Assessment on:  Measures  Shape Area and Pythagoras |
| HT6: Fractions Decimals & Percentages | Order fractions and decimals. Convert between fractions, decimals and percentages. Find percentage of amounts mentally and using decimal multipliers. | Assessment on:  Fractions Decimals and Percentages. |