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| **YEAR 10 (F) CURRICULUM MEDIUM TERM PLAN - MATHS** |  | red rose badgepng |
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| **TOPIC** | **KEY LEARNING** | **ASSESSMENT** |
| HT 1: Indices & Standard Form  HT 1: Algebraic Expressions | Review of negative numbers. Using powers and roots. Laws of indices. Negative indices. Reciprocals. Multiplying and dividing by powers of 10. Using and calculating with standard form.  Using and writing algebraic expressions, formulae and equations. Simplifying expressions by collecting multiplying and dividing terms. Applying laws of indices to algebraic terms. Expanding single brackets and Factorising single brackets | Assessment on:  Indices & Standard Form  Algebraic Expressions |
| HT 2: Percentages Calculator Methods  HT 2: Averages Range & Presenting Data | Convert between FDP. Find percentages of amounts. Find percentage change. Finding percentage changed. Finding percentage profit and loss. Reverse percentage increase and decrease. Successive percentage change. Simple interest. Compound interest.  Find averages and range. Stem & leaf diagrams. Pictograms and Bar charts. Averages from frequency tables. Averages and grouped data. Frequency polygons. Interpret frequency tables. Estimate of the mean. | Assessment on:  Percentages Calculator Methods  Averages Range & Presenting Data |
| HT 3: Substitution Formulae & Equations  HT3: Factors Multiples & Primes | Using function machines including with algebraic expressions. Substitution. Solving equations, one step, two step and multi-step. Solving simultaneous equations.  Use factors, multiples and prime numbers. Find LCM and HCF of two numbers. Prime factorisation. Use Prime factors of two numbers. | Assessment on:  Substitution Formulae & Equations  Factors Multiples & Primes |
| HT4: Rearranging Formulae & Sequences | Rearranging formulae. Finding missing terms in sequences. Identify rules for arithmetic, geometric and Fibonacci sequences.  Find nth term rule for arithmetic sequences. | Assessment on:  Rearranging Formulae & Sequences |
| HT 5: Coordinate Geometry & Linear Graphs | Plot coordinates. Recognise basic straight lines. Find midpoints of line segments. Find gradients and intercepts of straight lines.  Plot linear graphs in the form y=mx+c. Identify parallel lines by comparing gradients. | Assessment on:  Coordinate Geometry & Linear Graphs |
| HT6: Speed Distance & Time | Use conversions of time. Work with time intervals. Interpret real life timetables. Find speed, distance and time including for multipart journeys. Interpret distance time graphs and work out speeds from these graphs. | Assessment on:  Speed Distance & Time |