**ENGLISH LANGUAGE SCHOOL (PVT.) DUBAI**

**SCHOLASTIC SESSION: 2019-2020**

**THIRD TERM MATHS PLAN FOR YEAR 8 (April 5 – June 5 2020)**

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| **Title** | **NC Objectives** | **PTM Focus** | **Text Book and Page number** | **Self-Assessment** | | |
| Red | Amber | Green |
| **Calculating with fractions Time: 3 Weeks** | * Adding and subtracting fractions with any size denominator. * Multiply integers and fractions by a fraction * Use appropriate methods for multiplying fractions. * Use appropriate methods for multiplying fractions. * Find the reciprocal of a number. * Divide integers and fractions by a fraction. * Use strategies for dividing fractions. * Use the four operations with mixed numbers. | * Write 1/4 as a percentage, what angle is a 1/4 turn and work out 1/4 of 6 * Order fractions, decimals and percentages * Order numbers with up to three decimal places from smallest to largest * solve long multiplication and long division and identify errors. | KS3 Maths progress θ2 pages 187-209 |  |  |  |
| **Straight Line Graphs- 3 weeks** | * Recognising when values are in direct proportion. * Plotting graphs and reading values to solve problems. * Plot a straight-line graph and work out its gradient. * Plot the graphs of linear functions. * Find midpoints of line segments. * Write the equations of straight line graphs in the form y = mx + c * Identify and describe practical examples of direct proportion. * Solve problems involving direct proportion with or without a graph. | * Conversion graph comparing the original price with the sale price * Match linear equations with line graphs, draw line graphs from equations | KS3 Maths progress θ2 pages 211-233 |  |  |  |
| **Percentages, Decimals and Fractions- 2 weeks** | * Recall equivalent fractions and decimals. * Recognise recurring and terminating decimals. * Order fractions by converting them to decimals or equivalent fractions. * Recall equivalent fractions, decimals and percentages. * Use different methods to find equivalent fractions, decimals and percentages. * Use the equivalence of fractions, decimals and percentages to compare proportions. * Working out one number as a percentage of another. * Working out percentage increase and decrease. * Use a multiplier to calculate percentage increase and decrease. * Use the unitary method to solve percentage problems. * Use strategies for calculating fractions and decimals of a given number. * Use mental strategies of conversion and equivalence of fractions, decimals and percentages to solve word problems mentally. | * Solve problems involving percentages | KS3 Maths progress θ2 pages 235-257 |  |  |  |
| **Revision-1 week** | * Revision of Topics from Term1- Term 3 | * Calculate the interior and exterior angles in a pentagon, identify values of angles using line of symmetry in polygons * Complete labels on items from line graphs * Find modal value, predict what happens to the mean and median if one value increases * Find total from spinners using knowledge of two-way tables * Use knowledge of probability to solve problems |  |  |  |  |