**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
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