Gulf English School Term 2 Part 1 Year 7 Mathematics

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| TOPICS: Decimals; Units of Lengths and Mass; Introducing Geometry; Symmetry; Triangles and Quadrilaterals |

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| **Themes:** Multiply and divide by decimals, dividing by transforming to division by an integer, by two digits.  Understand the effect of multiplying a positive number by a decimal less than 1’***.***  ***-***Convert between large and small whole number metric units. Use the standard conventions for labelling the sides and angles of triangle ABC. Apply the properties of angles at a ***point;*** apply the properties angles at a point on a straight line.  Identify properties of, and describe the results of: translations, reflections, rotations. | Level: Year 7 |
| **Objectives:** To convert between metric lengths and mass; To describe fractions of a revolution using clock, compass, right angles; To use a protractor to measure and draw angles***;*** To find lines of symmetry; To find the order of rotational symmetry; To find congruence in similar shapes; To name sides and angles in triangles; To construct triangles using compass and protractor. To develop knowledge of angles and apply angle facts to deduce unknown angles. | |

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| Focussing Questions | Key Words | |
| **1-2** Decimals   * Key resources: STP Year 7 Chapter 8 Ex 8d– q * How do we find the place value and expansion form of decimals? * How many decimal places we put in answer after multiplying 2 d.p to 1 d.p?   **3-4. Units Length and Mass:**   * Key resources: STP Book Year 7 Chapter 9 Ex 9a - i * Explain the difference between a metric units and imperial units? * How do we estimate the length? * How do we compare the length? * What units de we use for measuring the weight? * How do we add or subtract the quantities? * Assessment: Cumulative quiz   **5-6. Introducing Geometry**   * Key resource: STP Book Year 8 Chapter 10 Ex 10a – m * What fraction of revolution does the second hand of a clock turn through when it starts at 12 and stops at 6? * What angle is a quarter, half and full revolution? * What type of angles do we know? * How do we identify angles? * How many degrees is right angle? * What is the definition of acute, obtuse and reflex angles? * How many degrees is a straight line angle? * What is another name of straight line angles? * How many degrees is an angle at a point? * Assessment: Cumulative quiz   7-8. Symmetry   * Key resource: STP Book Year 8 Chapter 11 Ex 11a – e * What type of translations do we know? * What does the mirror line mean? * What is axis of symmetry? * What does congruence mean? * Assessment: Cumulative test | Divisor, Dividend, Quotient, Remainder  Factor  Short division  Long division  Operation  Estimate  Length, distance  Mass, weight  Volume  Capacity  Metre, centimetre, millimetre  Tonne, kilogram, gram, milligram  Litre, millilitre  Hour, minute, second  Inch, foot, yard  Pound, ounce  Pint, gallon  Degrees  Right angle  Acute angle  Obtuse angle  Reflex angle  Protractor  Vertically opposite  Grid  Axis, axes, x-axis, y-axis  Origin, Quadrant  Coordinates Point  Translation  Reflection  Transformation  Object, Image  Congruent, congruence | Explaining words  To convert to simplest form…  You must only multiply or divide ….  The definition of a supplementary angle is….  The properties of the right, acute, obtuse and reflex are….  We can draw symmetrical shapes….  We can identify and draw a congruent shapes. |