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, RemainderFactorShort divisionLong divisionOperationEstimateLength, distanceMass, weightVolumeCapacityMetre, centimetre, millimetreTonne, kilogram, gram, milligramLitre, millilitreHour, minute, secondInch, foot, yardPound, ouncePint, gallonDegreesRight angleAcute angleObtuse angleReflex angleProtractorVertically oppositeGridAxis, axes, x-axis, y-axisOrigin, QuadrantCoordinates PointTranslationReflectionTransformationObject, ImageCongruent, congruence | Explaining wordsTo 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. |