**Gulf English School Term 1 Year 9 Mathematics**

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| TOPICS: Travel graphs, Estimation & accuracy, Calculating with fractions, Probability |

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| Themes: Using travel graphs, Estimation and accuracy, Multiplying & dividing fractions, notation and methods for calculation of Probability | Level: Year 9 |
| Objectives: To draw and use a single stage/multistage travel graph to calculate: distance travelled, time taken, average speed. To use different levels of accuracy through rounding. To interpret a rounded number as being within a range of possible values. To display inequalities on a number line. To multiply and divide fractions. To use notation for recurring decimals. To Perform the four operations with numbers in standard form. To assess and categorize events as being independent or mutually exclusive. To use tree diagrams to calculate probabilities. To use Venn diagrams to calculate proabability. |

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| Focussing Questions | Key Words |
| * 1. **Travel Graphs: Distance/time**
* Key resources: STP Year 9 Chapter 1. Ex 1a – 1g
* What scale would be appropriate to draw different travel graphs?
* How can I calculate the distance travelled by an object? What units are the most appropriate?
	+ Assessment: Topic Test

**3-5. Estimation, Fractions & Decimals*** Key resource: STP Year 9 Chapter 2 , Ex 2a to 2e
* The number of students in the school is 1500 to the nearest 100, what is least/greatest number there could be?
* Convince me that 39 652 rounds to 40 000 to one significant figure
* What is wrong: $\frac{11 × 28.2}{0.54}≈\frac{10 × 30}{0.5}=150$. How can you correct it?
* Since 0.1 = 1/10, what does 0.1111.. equal?
	+ Assessment: Topic Test
	1. **Handling data: Probability**
* Key resources: STP Book Year 9 Chapter 3 Ex 3a –3gc
* What will a Venn diagram look like for mutually exclusive events?
* Using a tree diagram, how can we list the possible outcomes?
* Convince me that there are eight different outcomes when three coins are flipped together
	+ Assessment: Topic Test

Assessment: Cumulative half term test | Distance, Speed, Time, Axes, Distance/Time graph, Formula triangle, Steepness, Gradient, Rate of Change, Estimation, Significant Figures, Decimal Places, Lower Bound, Upper Bound, Reciprocal, Independent Events, Mutually Exclusive Events, Tree Diagram, Venn Diagram, Intersection, Union,  | Explaining wordsMy rationale for … is…The appropriate degree of accuracy would be… because…Therefore...The criteria for…. is |

**TEXT BOOK: STP MATHEMATICS YEAR 9**