Gulf English School Term 1 Year 7 Mathematics

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| TOPICS: Four operations & Estimation, Displaying data, Patterns and classifying numbers |

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| Themes: Efficient pencil and paper methods. Collecting and displaying data. Patterns and types of number | Level: Year 7 |
| Objectives: To develop and refine methods for addition, subtraction, multiplication and division  of whole numbers: Mentally, by approximation, pencil and paper methods and by calculator. To effectively and systematically collect data and illustrate using; Frequency tables, Bar charts, Pictograms. To recognise and classify numbers and patterns: Factors, multiples and prime numbers, Index notation, Products of primes, Common factors & multiples, HCF, LCM, Describe patterns (term to term), square & triangle numbers |

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| Focussing Questions | Key Words |
| 1. **What methods can we use to add and subtract?**
* Key resources: STP Year 7 Chapter 1 Ex 1a to 1g
* How do we estimate?
* Why do we estimate?
* How would we find the answer quickly?
* Assessment: Topic Test

**2-3. What methods can we use to multiply and divide?*** Key resource: STP Year 7 Chapter 2, Ex 2a to 2j (Mixed Ex’s K,L)
* How can we calculate 45x67?…246÷7?
* What other ways are there to calculate the answer?
* How can you check you answer?
* How can we deal with remainders?
	+ Assessment: Topic Test
1. **Collecting and displaying data:**
* Key resources: STP Book Year 7 Chapter 3Ex 3a – 3f
* How can we record data?
* How can these data be illustrated usefully?
* Why would it be useful to display data this way?
	+ Assessment: Topic Test

**5-6. Number and patterns*** Key resource: STP Book Year 7 Chapter 4 Ex 4a – 4q
* What types of number have only two factors?
* Is there a number we can’t write using prime factors?
* Describe the pattern.
* How are square & triangle numbers connected?
	+ Assessment: Topic Test

Assessment: Cumulative half term test | Estimation, Rounding, Place value, ApproximationReasonable,Multiply, Times, Product, Result, Divide, Share, Quotient, Powers, Remainders, WorkingsData collection, Frequency, Tally chart, Bar chart, Bar graph, Axes, Scale, Pictogram, KeyFactor, Multiple, HCF, LCM. Indices, Index notation, Prime factor decomposition, patterns, sequences, Square numbersTriangle numbersRectangular numbers | Explaining words...the reminder is.....because...Therefore...As a result...To show the remainder you...The most effective way to illustrate… |

**TEXT BOOK: STP MATHEMATICS YEAR 7**