Gulf English School Term 1 IG1 Mathematics

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| TOPICS: Angles, Ratio, Proportion, Similar shapes, Constructions, Locus, Estimation |

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| Themes: Drawing/measuring/classifying angles, Ratio & similar shapes, Ratio & DST calculations, Constructions & Locus, Estimation/Rounding | Level: IG1 |
| Objectives: To use the correct equipment to draw/measure angles; To apply the rules of bearings to solve contextual problems; To compare/contrast similar & congruent as defined in maths to both mean “the same”; To explain that scale factors are different depending on which dimension you are working in; To create locii to fulfill given constraints of contextual problems; To use the rules of indices to simplify/share/increase/decrease in a given ratio; To explain use of ratio in Distance/Speed/Time/Rate calculations; To apply ratio to proportion problems, interpreting solutions in context; To estimate/round to check answers; To be able to explain that measurement is not exact. |

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| Focussing Questions | Key Words |
| **1. Angles, Bearings, Nets, congruency*** Chapter 23 Ex23a-d
* What are the three rules of bearings? Why do bearings need rules?
	+ Assessment: Cumulative Test

**2. Ratio/proportion** * Chapter 7, Ex7a-f
* How can we use ratio to compare 4km and 700m?
	+ Assessment: Cumulative quiz

**3. Similar Shapes*** Chapter 23 Ex23e-h
* Why do scale factors change depending on the dimension we are working in?
	+ Assessment: Cumulative quiz

**4-5 Constructions & Locus*** Chapter 24, Ex24a-d
* Demonstrate how to create the perpendicular bisector (or other constructions).
	+ Assessment: Cumulative quiz

**6. Estimation/Rounding*** Key resources: Collins Cambridge IGCSE Chapter 8, Ex 8a-c
* Given a rounded number, what can you say about the original amount?
	+ Assessment: Cumulative quiz

Assessment: Cumulative half term test | BearingMeasure of turnNetSimilarCongruent RatioInverseMultiplierDirect/inverse ProportionScale factorDimensional scale factorPerpendicular bisectorAngle bisectorEquidistantSignificant figures | Explaining wordsMy rationale for … is…The bearing of … from … is…The definition of … states that… so…Therefore...The illustrate the points equidistant from….we use…An appropriate degree of accuracy is…Scale factor changes with dimension because… |

**TEXT BOOK: COLLINS CAMBRIDGE IGCSE**