I. Learning Targets, Learning Objectives and Notes on Teaching

A. Learning Targets

Key Stage 3 (S1 - S3)	Key Stage 4 (S4 - S5)
To develop students an ever-improving capability to	To develop students an ever-improving capability to
 understand the nature of measurement and be aware of the issues about precision and accuracy; apply a variety of techniques, tools and formulas for measurements 	 use and select inductive reasoning, deductive reasoning or analytic approach to study the properties of 2-dimensional shapes;
and solving mensuration problems;	• formulate and write geometric proofs involving
 explore and visualize geometric properties of 2-dimensional and 3-dimensional objects intuitively; 	2-dimensional shapes with appropriate symbols, terminology and reasons;
• use inductive reasoning, deductive reasoning and analytic approach to study the properties of 2-dimensional rectilinear shapes;	• inquire, describe and represent geometric knowledge in 2-dimensional space using algebraic relations;
• formulate and write simple geometric proofs involving 2-dimensional rectilinear shapes with appropriate symbols, terminology and reasons;	• inquire, describe and represent geometric knowledge in 2-dimensional and 3-dimensional space—using trigonometric functions; and
• inquire, describe and represent geometric knowledge in 2-dimensional figures using numeric and algebraic relations;	• interconnect the knowledge and skills of the Measures, Shape
 inquire geometric knowledge in 2-dimensional space using trigonometric relations; and 	and Space Dimension and other Learning Dimensions, and apply them to formulate and solve 2-dimensional and 3-dimensional problems with various strategies.
• interconnect the knowledge and skills of the Measures, Shape and Space Dimension and other Learning Dimensions, and apply them to formulate and solve 2-dimensional problems.	