

CONTENTS

	Page
CONTENTS	iii
MEMBERSHIP OF THE CDC MATHEMATICS SUBJECT COMMITTEE (SECONDARY)	v
PREAMBLE	vii
CHAPTER 1 INTRODUCTION	
Principles of Curriculum Design	1
CHAPTER 2 AIMS AND OBJECTIVES	
2.1 Aims of the Secondary School Mathematics Education	4
2.2 Objectives of the Secondary School Mathematics Education	
2.2.1 Knowledge Domain	4
2.2.2 Skill Domain	5
2.2.3 Attitude Domain	5
CHAPTER 3 ORGANIZING THE MATHEMATICS CURRICULUM	
3.1 Dimensions	6
3.2 Structure	6
3.3 Time Allocation	7
3.4 School-based Mathematics Curriculum	7
CHAPTER 4 LEARNING TARGETS AND OBJECTIVES	
4.1 An Overview of Learning Targets	
4.1.1 Number and Algebra Dimension	9
4.1.2 Measures, Shape and Space Dimension	10
4.1.3 Data Handling Dimension	11
4.2 An Overview of Learning Modules and Units	
4.2.1 Number and Algebra Dimension	12
4.2.2 Measures, Shape and Space Dimension	13
4.2.3 Data Handling Dimension	14
4.2.4 Further Applications Module	14
4.3 Learning Objectives for Key Stage 3 (S1-S3)	
4.3.1 Number and Algebra Dimension	15
4.3.2 Measures, Shape and Space Dimension	20
4.3.3 Data Handling Dimension	25
4.4 Learning Objectives for Key Stage 4 (S4 -S5)	
4.4.1 Number and Algebra Dimension	28
4.4.2 Measures, Shape and Space Dimension	31
4.4.3 Data Handling Dimension	33
4.4.4 Further Applications Module	35

CHAPTER 5 TEACHING SUGGESTIONS

5.1 Curriculum Strategies	
5.1.1 Process of Learning	36
5.1.2 Catering for Learner Differences	38
5.1.3 Appropriate Use of Information Technology (IT)	38
5.1.4 Appropriate Use of Multifarious Teaching Resources	40
5.2 Teaching Strategies in Individual Dimensions	
5.2.1 Number and Algebra Dimension	41
5.2.2 Measures, Shape and Space Dimension	42
5.2.3 Data Handling Dimension	43
5.2.4 Further Applications Module	44

CHAPTER 6 ASSESSMENT

6.1 Purposes of Assessment	45
6.2 Assessment Strategies	45
6.3 Feedback from Assessment	46

ANNEXES

ANNEX I	Learning Targets and Learning Objectives for Key Stages 1 and 2	48
ANNEX II	An Overview of Learning Dimensions and Modules for Key Stages 3 and 4	56
ANNEX III	The Flowchart of Learning Units for Secondary School Mathematics Curriculum	57