



**COMMONWEALTH OF THE BAHAMAS**

**MINISTRY OF EDUCATION**

# **Mathematics**

**ARTS & SCIENCES SECTION**

**National Pacing Guide**

**GRADES: 10-12**

**2022-2023**

**Department of Education**  
**National Pacing Guide: Grade 10**  
**Mathematics**  
**Senior High School (2022-2023)**

*This guide is designed for classes that will sit the BGCSE CORE examination in three years. It has been extracted from the New High School BGCSE Core Academic Track.*

TERM ONE			TERMS TWO & THREE		
No.	Topics	Time*	No.	Topics	Time*
1.	Basic Number Theory	3 wks.	1.	Laws of Indices	2 wks.
2.	Properties of Real Numbers	1 wk.	2.	Standard Form/ Scientific Notation	2 wks.
3.	Factors and Multiples	1 wk.	3.	Algebraic Representation & Simplifying Algebraic Expressions, Substitution	3 wks.
4.	Squares & Square Roots, and Cubes & Cube Roots	1 wk.	4.	Expansion of Products	2 wks.
5.	Sequences of Natural Numbers	2 wks.	5.	Factorization	2 wks.
6.	Integers	3 wks.	6.	Algebraic Fractions	3 wks.
7.			7.	Linear Equations	2 wks.
8.			8.	Transposition	3 wks.
			10.	Linear Inequalities	3 wks.
TOTAL:		11 wks.	TOTAL:		22 wks.

\*Estimated number of weeks

**Department of Education  
National Pacing Guide: Grade 11  
Mathematics  
Senior High School (2022-2023)**

❖ *This guide is designed for classes that will sit the BGCSE CORE examination in three years. It has been extracted from the New High School BGCSE Core Academic Track.*

TERM ONE			TERMS TWO & THREE		
No.	Topics	Time*	No.	Topics	Time*
1.	Simultaneous Equations	3 wks.	1.	Angle Properties	2 wks.
2.	Graphs of Linear Functions	3 wks.	2.	Constructions & Scale Drawing	3 wks.
3.	Graphs of Quadratic Functions	3 wks.	3.	Circle Theorems	2 wks.
4.	Sets	2 wks.	4.	Pythagoras' Theorem	2 wks.
5.	Geometrical Terms & Properties	1 wk.	5.	Trigonometric Ratios	3 wks.
6.			6.	Bearings	2 wks.
7.			7.	Symmetry	½ wk.
			8.	Transformations	2½ wks.
			9.	Time	1½ wks.
			10.	Units of Measurement	1½ wks.
			11.	Average Speed	1½ wks.
			12.	Practical Graphs	1½ wks.
<b>TOTAL:</b>		<b>12 wks.</b>	<b>TOTAL:</b>		<b>23 wks.</b>

\*Estimated number of weeks

**Department of Education  
National Pacing Guide: Grade 12  
Mathematics  
Senior High School (2022-2023)**

❖ *This guide is designed for classes that will sit the BGCSE CORE examination in three years. It has been extracted from the New High School BGCSE Core Academic Track.*

TERM ONE			TERMS TWO & THREE		
No.	Topics	Time*	No.	Topics	Time*
1.	Mensuration	3 wks.	1.	Consumer Mathematics: Profit & Loss	3 wks.
2.	Similarity & Congruency	2 wks.	2.	Consumer Mathematics: Money Calculations	3 wks.
3.	Ratio & Proportion	2 wks.	3.	Consumer Mathematics: Money, Personal & Household Finance	3 wks.
4.	Probability	2 wks.	4.	BGCSE REVIEW	7 wks.
	Statistics	3 wks.			
TOTAL:		12 wks.	TOTAL:		16 wks.

\*Estimated number of weeks

**Department of Education**  
**National Pacing Guide: Grade 12**  
**Mathematics**  
**Senior High School (2022-2023)**  
**BJC in One Year**

❖ *This guide is designed for students with an E, F, G, U in BJC or 0-44% Placement Score who will re-sit the examination in one year's time extracted from the New High School Curriculum BJC Employment Applied/Workforce/Open Track.*

TERM ONE			TERMS TWO & THREE		
No.	Topics	*Time	No.	Topics	*Time
1.	Real Numbers	2 wks.	1.	Ratio and Proportion	2 wks.
2.	Factors & Multiples	1 ½ wks.	2.	Consumer Mathematics – Money Calculations, Personal & Household Finance	4 wks.
3.	Squares & Square Roots, Cubes & Cube Roots	1 wk.	3.	Sets	2 wks.
4.	Order of Operations	1 wk.	4.	Algebra – Representation, Indices, Substitution, Simplifying Algebraic Expressions, Expansion of Products, Inequalities	2 ½ wks.
5.	Integers	1 ½ wks.	5.	Linear Equations	1 ½ wks.
6.	Fractions	2 wks.	6.	Graphs	1 ½ wks.
7.	Decimals	1 wks.	7.	Geometry	2 ½ wks.
8.	Percent & Percentages	1 wk.	8.	Constructions	1 ½ wks.
9.	Time	1 wk.	9.	Mensuration	2 wks.
			10.	Transformations	1 wk.
			11.	Statistics	1 ½ wks.
			12.	Probability	1 wk.
s	TOTAL	12 weeks		TOTAL	23 weeks

\*Estimated number of weeks

The following topics must be incorporated where possible which includes extra classes: Sequences, Symmetry, Units of Measure, Average Speed.