

Information for 2NA Streaming Exercise 2019

Mathematics



with Constancy and Purpose

MATHEMATICS

- **Compulsory subject**
- **Develops logical, critical thinking and reasoning skills through problem solving**
- **Demands on understanding, connecting and applying concepts**
- **Builds on foundation from lower secondary**

In Sec 3..

■ 2 routes for Mathematics:

Route 1:

NA Mathematics

Route 2:

**Express Mathematics &
NA Additional Mathematics**

Route 1: NA MATHEMATICS

- **Math Syllabus A**

Route 2: EXPRESS MATH & NA ADDITIONAL MATH

- **Offered to students with strong foundation in Math, esp in algebra**
- **NA Add Math is a subject over and above the set of core subjects**
- **Students are to sit for N-Level Add Math & O-Level Math at the end of S4**

Criteria

To qualify for NA Add Math & Express Math in Sec 3,

- **Non-SBB students must score**
 - **At least 70% in Sec 2 NA Math**
 - **At least 60% in Sec 2 Overall**
- **Current SBB students must score**
 - **At least 50% in Sec 2 Express Math**

Add Math Topics & Pre-requisites

Strand	Add Math Topic	Pre-requisites from Lower Sec
ALGEBRA	Quadratic Equations and Inequalities	<ul style="list-style-type: none">• Solving quadratic equations by factorisation (Sec 2)• Solving simple linear inequalities (Sec 2)
	Indices and Surds	<ul style="list-style-type: none">• Expansion & Factorisation (Sec 1/2)• Algebraic Manipulation (Sec 1)
	Polynomials	<ul style="list-style-type: none">• Expansion & Factorisation (Sec 1/2)• Algebraic Manipulation (Sec 1)
	Binomial Expansions	<ul style="list-style-type: none">• Expansion & Factorisation (Sec 1/2)• Algebraic Manipulation (Sec 1)

Add Math Topics & Pre-requisites

Strand	Add Math Topic	Pre-requisites from Lower Sec
GEOMETRY	Trigonometric Functions, identities and equations	<ul style="list-style-type: none">• Algebraic Manipulation (Sec 1)
	Coordinate Geometry in two dimensions	<ul style="list-style-type: none">• Cartesian coordinates in two dimensions (Sec 2)• Graphs of linear functions (Sec 2)• Gradient of a linear graph (Sec 2)
CALCULUS	Differentiation and Integration	<ul style="list-style-type: none">• Expansion & Factorisation (Sec 1/2)• Algebraic Manipulation (Sec 1)

Lesson Arrangements (Single Math)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
		7:30 - 8:00	8:00 - 8:30	8:30 - 9:00	9:00 - 9:30	9:30 - 10:00	10:00 - 10:30	10:30 - 11:00	11:00 - 11:30	11:30 - 12:00	12:00 - 12:30	12:30 - 13:00	13:00 - 13:30	13:30 - 14:00	14:00 - 14:30
Mo	Odd Weeks	STAR	MTL <small>ZLY / GP / SB / COH / TPOC / GB / NBR SBH / MTL / KMA / MTL / L / LR</small>	ART/POA <small>ART1</small>				RECESS(L)	SS <small>RLC / M / A / Y / RK</small>	MA <small>L / A</small>					
	Even Weeks	STAR	MA <small>ZLY / GP / SB / COH / TPOC / GB / NBR</small>	ART/POA <small>ART1</small>	EL <small>SBH / MTL / KMA / MTL / L / LR</small>	RECESS(L)	MTL <small>ZLY / GP / SB / COH / TPOC / GB / NBR</small>	SChem <small>WPK / ANB / GLE</small>							
Tu	Odd Weeks	HQH (EL)	ANDE <small>ZLY / FLD / VPK</small>	ART/POA <small>ART1</small>	SPhy <small>TOD / YMB / KKY / LRN / OGL RLJ / RHY</small>	RECESS(L)	SChem <small>WPK / ANB / GLE</small>	PE2(U) <small>TRF</small>	EL <small>SBH / MTL / KMA / MTL / L / LR</small>						
	Even Weeks	HQH (EL)	ANDE <small>ZLY / FLD / VPK</small>	MA <small>TOD / YMB / KKY / LRN / OGL</small>	SChem <small>WPK / ANB / GLE</small>	RECESS(L)	ART/POA <small>ART1</small>			MTL <small>ZLY / GP / SB / COH / TPOC / GB / NBR</small>					
We	Odd Weeks	HQH (EL)	EFL(US) <small>ZLY / FLD / VPK</small>	PE(U) <small>TRF</small>	SChem <small>WPK / ANB / GLE</small>	RECESS(L)	MA <small>ZLY / GP / SB / COH / TPOC / GB / NBR</small>	EL <small>SBH / MTL / KMA / MTL / L / LR</small>							
	Even Weeks	HQH (EL)	EFL(US) <small>ZLY / FLD / VPK</small>	SPhy <small>TOD / YMB / KKY / LRN / OGL RLJ / RHY</small>	PE(U) <small>TRF</small>	RECESS(L)	EL <small>SBH / MTL / KMA / MTL / L / LR</small>	MTL <small>ZLY / GP / SB / COH / TPOC / GB / NBR</small>							
Th	Odd Weeks	HQH (MTL)	MA <small>ZLY / GP / SB / COH / TPOC / GB / NBR</small>	SPhy <small>TOD / YMB / KKY / LRN / OGL RLJ / RHY</small>	MTL <small>ZLY / GP / SB / COH / TPOC / GB / NBR</small>	RECESS(L)	SS <small>RLC / M / A / Y / RK</small>	EL <small>SBH / MTL / KMA / MTL / L / LR</small>							
	Even Weeks	HQH (MTL)	SS <small>RLC / M / A / Y / RK</small>	SPhy <small>TOD / YMB / KKY / LRN / OGL RLJ / RHY</small>	EL <small>SBH / MTL / KMA / MTL / L / LR</small>	RECESS(L)	HE/GE <small>WBC / FLD / LTB / TWAP</small>	MA <small>ZLY / GP / SB / COH / TPOC / GB / NBR</small>							
Fr	Odd Weeks	○	EL <small>ZLY / GP / SB / COH / TPOC / GB / NBR</small>	MA <small>TOD / YMB / KKY / LRN / OGL</small>	HE/GE <small>WBC / FLD / LTB / TWAP</small>	RECESS(L)	MTL <small>ZLY / GP / SB / COH / TPOC / GB / NBR</small>								
	Even Weeks	○	HE/GE <small>WBC / FLD / LTB / TWAP</small>	EL <small>SBH / MTL / KMA / MTL / L / LR</small>	PE2(U) <small>TRF</small>	RECESS(L)	MA <small>ZLY / GP / SB / COH / TPOC / GB / NBR</small>								

Lesson Arrangements (Double Math)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
		7:30 - 8:00	8:00 - 8:30	8:30 - 9:00	9:00 - 9:30	9:30 - 10:00	10:00 - 10:30	10:30 - 11:00	11:00 - 11:30	11:30 - 12:00	12:00 - 12:30	12:30 - 13:00	13:00 - 13:30	13:30 - 14:00	14:00 - 14:30
Mo	Odd Weeks	STAR	MTL <small>ZLY / GP / SBU / COH / TPOC / GB / NBR SBU / MTL / SBA / MTL / L3 / L2</small>	ART/POA <small>ART1</small>				RECESS(L)		SS <small>RLC / AMLA / YPK</small>	MA <small>SWT / VPK</small>	AMath <small>SWT / VPK</small>			
	Even Weeks	STAR	MA <small>SWT / VPK</small>	ART/POA <small>ART1</small>	EL <small>SWT / VPK</small>		RECESS(L)		MTL <small>ZLY / GP / SBU / COH / TPOC / GB / NBR SBU / MTL / SBA / MTL / L3 / L2</small>	SChem <small>RLC / CHMO</small>	AMath <small>SWT / VPK</small>				
Tu	Odd Weeks	HDH (EL)	ANDE <small>ZLY / FLD / VPK</small>	ART/POA <small>ART1</small>	SPhy <small>TOD / YMS / KKY / LRN / OGL RLC / PHY</small>		RECESS(L)		SChem <small>WPK / ANB / OLS RLC / CHMO</small>	PE2(U) <small>TRF</small>	EL <small>SWT / VPK</small>				
	Even Weeks	HDH (EL)	ANDE <small>ZLY / FLD / VPK</small>	MA <small>SWT / VPK</small>	SChem <small>WPK / ANB / OLS RLC / CHMO</small>		RECESS(L)		ART/POA <small>ART1</small>			MTL <small>ZLY / GP / SBU / COH / TPOC / GB / NBR SBU / MTL / SBA / MTL / L3 / L2</small>			
We	Odd Weeks	HDH (EL)	EFL(US) <small>ZLY / FLD / VPK</small>	PE(U) <small>TRF</small>	SChem <small>WPK / ANB / OLS RLC / CHMO</small>		RECESS(L)		MA <small>SWT / VPK</small>	EL <small>SWT / VPK</small>	AMath <small>SWT / VPK</small>				
	Even Weeks	HDH (EL)	EFL(US) <small>ZLY / FLD / VPK</small>	SPhy <small>TOD / YMS / KKY / LRN / OGL RLC / PHY</small>	PE(U) <small>TRF</small>		RECESS(L)		EL <small>SWT / VPK</small>	MTL <small>ZLY / GP / SBU / COH / TPOC / GB / NBR SBU / MTL / SBA / MTL / L3 / L2</small>	AMath <small>SWT / VPK</small>				
Th	Odd Weeks	HDH (MTL)	MA <small>SWT / VPK</small>	SPhy <small>TOD / YMS / KKY / LRN / OGL RLC / PHY</small>	MTL <small>ZLY / GP / SBU / COH / TPOC / GB / NBR SBU / MTL / SBA / MTL / L3 / L2</small>		RECESS(L)		SS <small>RLC / AMLA / YPK</small>	EL <small>SWT / VPK</small>	SChem SBB <small>WPK</small>				
	Even Weeks	HDH (MTL)	SS <small>RLC / AMLA / YPK</small>	SPhy <small>TOD / YMS / KKY / LRN / OGL RLC / PHY</small>	EL <small>SWT / VPK</small>		RECESS(L)		HE/GE <small>WPK / FLD / LTB / TWAP</small>	AMath <small>SWT / VPK</small>		SPhy SBB <small>TRF</small>			
Fr	Odd Weeks	○	EL <small>SWT / VPK</small>	AMath <small>SWT / VPK</small>		HE/GE <small>WPK / FLD / LTB / TWAP</small>		RECESS(L)		MTL <small>ZLY / GP / SBU / COH / TPOC / GB / NBR SBU / MTL / SBA / MTL / L3 / L2</small>					
	Even Weeks	○	HE/GE <small>WPK / FLD / LTB / TWAP</small>	EL <small>SWT / VPK</small>		PE2(U) <small>TRF</small>		RECESS(L)		MA <small>SWT / VPK</small>					

Take up Add Maths ONLY if you have:

- **APTITUDE**
 - Esp in algebra
 - Ability to grasp concepts well
- **INTEREST**
- **PERSEVERANCE & HARDWORK** to sustain the rigorous demands of the subject

**IF YOU WANT IT,
GO FOR IT!**

THANK YOU