

Sec 2 Streaming Q&A Session

Friday 28 July 2017

Changes in S2 Streaming Process

- Pre-streaming survey conducted in May 2017
(alignment between school's planning and students' aspirations)
- Students choose the subject combination they want rather than the class they want

Changes in S3 Subject Combination

- Pure Physics + C Science (Chem/Bio) Combination
- At least 1 Pure Science subject is available in every class (details later)
- Giving students a choice of 7 or 8 subjects, even for students who offer Triple Science

Compulsory Subjects

Subjects		Instructions
English Language Elementary Mathematics Mother Tongue		Standard subjects: no need to choose
Combined Humanities	Social Studies/ Geography Elective	Choose 1
	Social Studies/ History Elective	
Science	Combined Science (Chemistry, Biology)	Choose 1
	Combined Science: (Physics, Chemistry)	
	Pure Chemistry	

Elective Subjects

Subjects	Instructions	
Pure Science	Optional subject	
		Pure Physics <i>Can be offered together with Combined Science (Chemistry, Biology) or Pure Chemistry.</i>
		Pure Biology <i>Can <u>only</u> be offered together with Combined Science (Physics, Chemistry).</i>
Pure Physics & Pure Biology <i>Can <u>only</u> be offered together with Pure Chemistry.</i>		

Elective Subjects

Subjects		Instructions
Pure Humanities/ Additional Mathematics	Pure Geography	Choose 1
	Pure Literature	
	Additional Mathematics	
C&T/ POA	Art/ Design & Technology/ Food & Nutrition (Choose 1)	Optional subject
	Principles of Accounts	
HCL	Higher Chinese	Optional subject

Compulsory Subjects-Qualifying Criteria

Subjects		Criteria
English Language Elementary Mathematics Mother Tongue		<ul style="list-style-type: none"> • NA
Combined Humanities	Social Studies/ Geography Elective	<ul style="list-style-type: none"> • Pass in Geography
	Social Studies/ History Elective	<ul style="list-style-type: none"> • Pass in History
Science	Combined Science (Chemistry, Biology)	<ul style="list-style-type: none"> • NA
	Combined Science: (Physics, Chemistry)	
	Pure Chemistry	<ul style="list-style-type: none"> • English, Maths & Science = B3 & above • Overall % = 65% & above

Elective Subjects- Qualifying Criteria

	Subjects	Criteria
Pure Science	<p>Pure Physics</p> <p><i>Can be offered together with Combined Science (Chemistry, Biology) or Pure Chemistry.</i></p>	<ul style="list-style-type: none"> • Math = A2 & above • English & Science = B3 & above • Overall % = 65% & above
	<p>Pure Biology</p> <p><i>Can <u>only</u> be offered together with Combined Science (Physics, Chemistry).</i></p>	<ul style="list-style-type: none"> • English = A2 & above • Maths & Science = B3 & above • Overall % = 65% & above
	<p>Pure Physics & Pure Biology</p> <p><i>Can <u>only</u> be offered together with Pure Chemistry.</i></p>	<ul style="list-style-type: none"> • English & Maths = A2 & above • Overall % = 70% & above

Elective Subjects- Qualifying Criteria

Subjects		Criteria
Pure Humanities/ Additional Mathematics	Pure Geography	<ul style="list-style-type: none"> • Geography & History = B3 & above
	Pure Literature	<ul style="list-style-type: none"> • Literature = B3 & above
	Additional Mathematics	<ul style="list-style-type: none"> • Maths = B3 & above
C&T/ POA	Art/ Design & Technology/ Food & Nutrition (Choose 1)	<ul style="list-style-type: none"> • Art/ D&T/ Home Economics = B3 & above
	Principles of Accounts	<ul style="list-style-type: none"> • Maths = B3 & above
HCL	Higher Chinese	<ul style="list-style-type: none"> • HCL = B4 & above

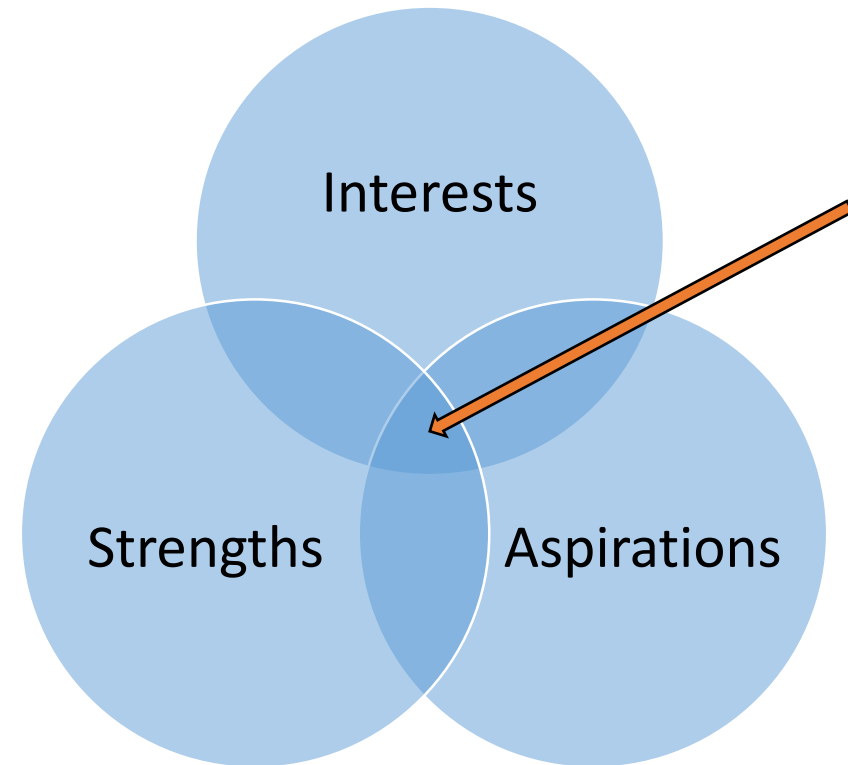
FAQ 1

- My child did not do that well in terms of meeting the subject criteria for certain subjects that he intended to apply. Will the school consider lowering the criteria?
 - The setting of qualifying criteria is to safeguard our students from offering subjects that are beyond their ability to cope. Hence, the school will approach this on a case-by-case basis.

Choosing the Right Subject Combination

Key Considerations

- Child's interests, strengths and career aspiration
- Child's ability to cope with the chosen combination
- Entry requirement for the post-secondary course of his/her choice



Joint-Admissions-Exercise (JC, MI, Polys, ITE)

<https://www.moe.gov.sg/admissions/joint-admissions-exercise>

Entry Requirement (JC)

L1R5	
L1	English or Higher Chinese
R1	Humanities
R2	Maths/ Science
R3	Humanities/ Maths/ Science
R4	Any other subject
R5	Any other subject

1. Grades for HCL and CL cannot be used together in L1R5 computation
2. To read H2 Science in JC, student must have either a pass in the relevant Pure Science subject or a Distinction (Grades 1-2) in the relevant Combined Science Subject

FAQ 2

- Do I need to do Triple Science in JC to qualify for Medicine?
 - No, you need a GOOD PASS in H2 Chemistry + a PASS in either H2 Physics or H2 Biology.
 - Additionally, there is no longer a Triple Science Combination in JC. There are also no H2 Physics + H2 Biology combination in JC, as H2 Chemistry is the compulsory Science subject for students offering 2 H2 Sciences.
- Do I need to do Triple Science in Sec School to qualify for Medicine?
 - No, you only need to qualify for 2 H2 Sciences (Chemistry + Physics or Biology)
 - To qualify for that, you need a PASS in 2 Pure Science or a PASS in 1 Pure Science + a Distinction in 1 Combined Science

TJC Science Comb 2017

Science Stream	Subj Comb Code	PW and GP/KI					Content Subjects										
		PW	GP	KI	FM	MA	CA	PA	BI	HA	GE	EC	LA	CLL	CSE	AR	MEP
		SC 1.1	✓	✓			✓	✓	✓		✓						
SC 1.2	✓	✓			✓	✓	✓			✓							
SC 1.3	✓	✓			✓	✓	✓				✓						
SC 1.4	✓	✓			✓	✓	✓					✓					
SC 1.5	✓	✓			✓	✓	✓						✓				
SC 1.6	✓	✓			✓	✓	✓							✓			
SC 1.7	✓	✓			✓	✓	✓									✓	
SC 1.8	✓	✓			✓	✓	✓										✓
SC 1.1K	✓		✓		✓	✓	✓		✓								
SC 1.2K	✓		✓		✓	✓	✓			✓							
SC 1.3K	✓		✓		✓	✓	✓				✓						
SC 1.4K	✓		✓		✓	✓	✓					✓					
SC 2.1	✓	✓			✓	✓		✓	✓								
SC 2.2	✓	✓			✓	✓		✓		✓							
SC 2.3	✓	✓			✓	✓		✓			✓						
SC 2.4	✓	✓			✓	✓		✓				✓					
SC 2.5	✓	✓			✓	✓		✓					✓				
SC 2.6	✓	✓			✓	✓		✓						✓			
SC 2.7	✓	✓			✓	✓		✓								✓	
SC 2.8	✓	✓			✓	✓		✓									✓
SC 2.1K	✓		✓		✓	✓		✓	✓								
SC 2.2K	✓		✓		✓	✓		✓		✓							
SC 2.3K	✓		✓		✓	✓		✓			✓						
SC 2.4K	✓		✓		✓	✓		✓				✓					
SC 3.1	✓	✓		✓	✓		✓										
SC 3.2	✓	✓		✓	✓		✓										

24 Chemistry (CA)

14 Physics (PA)

12 Biology (BI)

No H2 Phy & H2 Bio combination

No triple H2 Science combination (MOE policy of contrasting subject at A-Level)

Source: <http://temasekjc.moe.edu.sg>

MJC Science Comb 2017

Group	Content-based H2 Subjects				Content-based H1 Subjects	Compulsory H1 Subjects		
Sci 1	FM2	PH2	EC2	MA2		GP	PW	MTL
	FM2	PH2	LIT2 / CLL2 / MLL2	MA2				
	FM2	PH2	GE2	MA2				
	FM2	PH2	HI2	MA2				
	FM2	CH2	EC2	MA2				
	FM2	CH2	LIT2 / CLL2 / MLL2	MA2				
	FM2	CH2	GE2	MA2				
Sci 2	PH2	CH2	EC2	MA2		GP	PW	MTL
	PH2	CH2	LIT2 / CLL2 / MLL2	MA2				
	PH2	CH2	GE2	MA2				
	PH2	CH2	HI2	MA2				
	BI2	CH2	EC2	MA2				
	BI2	CH2	LIT2 / CLL2 / MLL2	MA2				
	BI2	CH2	GE2	MA2				
Sci 3	PH2	CH2		MA2	GE1 / HI1 / LIT1 / EC1 / GSC1	GP	PW	MTL
	CH2	BI2		MA2	GE1 / HI1 / LIT1 / EC1 / GSC1	GP	PW	MTL
Sci 4	PH2	EC2		MA2	CH1 / BI1 / GE1 / HI1 / LIT1 / GSC1	GP	PW	MTL
	CH2	EC2		MA2	PH1 / BI1 / GE1 / HI1 / LIT1 / GSC1	GP	PW	MTL
Sci 5	CH2	GE2		MA2	PH1 / BI1 / EC1 / LIT1 / GSC1	GP	PW	MTL
	CH2	HI2		MA2	PH1 / BI1 / EC1 / LIT1 / GSC1			
	CH2	LIT2		MA2	PH1 / BI1 / GE1 / HI1 / EC1 / GSC1			
	CH2	CLL2		MA2	PH1 / BI1 / GE1 / HI1 / EC1 / GSC1	GP	PW	
	CH2	MLL2		MA2	PH1 / BI1 / GE1 / HI1 / EC1	GP	PW	
	CH2	EC2	GE2	MA2		GP	PW	MTL
	PH2	EC2	GE2	MA2		GP	PW	MTL
	PH2	GE2		MA2	CH1 / BI1 / EC1 / LIT1 / GSC1			
	PH2	HI2		MA2	CH1 / BI1 / EC1 / LIT1 / GSC1			
	PH2	LIT2		MA2	CH1 / BI1 / GE1 / HI1 / EC1 / GSC1			
PH2	CLL2		MA2	CH1 / BI1 / GE1 / HI1 / EC1 / GSC1				
PH2	MLL2		MA2	CH1 / BI1 / GE1 / HI1 / EC1 / GSC1				

21 Chemistry (CH2)
16 Physics (PH2)
5 Biology (BI2)

No H2 Phy & H2 Bio combination

No triple H2 Science combination (MOE policy of contrasting subject at A-Level)

Source: <http://meridianjc.moe.edu.sg>

Entry Requirement (MI)

L1R4	
L1	English or Higher Chinese*
R1	Humanities/ Maths/ Science
R2	Humanities/ Maths/ Science
R3	Any other subject
R4	Any other subject

- Grades for HCL and CL cannot be used together in L1R5 computation

Entry Requirement (Poly)

ELR2B2					
Aggregate Type		ELR2B2-A	ELR2B2-B	ELR2B2-C	ELR2B2-D
EL		English			
R2	Group 1	<ul style="list-style-type: none"> Group 1 subjects 	<ul style="list-style-type: none"> Mathematics Additional Mathematics 		
	Group 2	<ul style="list-style-type: none"> Group 2 subjects 	<ul style="list-style-type: none"> Group 2 subjects 	<ul style="list-style-type: none"> Group 2 subjects 	<ul style="list-style-type: none"> Group 2 subjects

Entry Requirement (Poly)

ELR2B2			
Examples of Courses (at Ngee Ann Poly)	Group	Aggregate (2016)	Subjects Requirement
Aerospace Electronics	ELR2B2-C	15	<ul style="list-style-type: none"> • English (1-7) • Mathematics or A Maths (1-6) • Any of the following subjects (1-6) <ul style="list-style-type: none"> • Biology • Chemistry • Combined Science • D&T • Physics
Animation & 3-D Arts	ELR2B2-D	12	<ul style="list-style-type: none"> • English (1-7) • Mathematics or A Maths (1-7) • Any other 2 subjects (1-6) • 1 subject from group 2 of ELR2B2-D type of subjects

Entry Requirement (Poly)

ELR2B2			
Examples of Courses (at Ngee Ann Poly)	Group	Aggregate (2016)	Subjects Requirement
Early Childhood Education	ELR2B2-A	16	<ul style="list-style-type: none"> English (1-6) Mathematics or A Maths (1-6) Any other 3 subjects (1-6) 1 subject from group 1 and group 2 of ELR2B2-A type of subjects
Accountancy	ELR2B2-B	11	<ul style="list-style-type: none"> English (1-6) Mathematics or A Maths (1-6) Any other 3 subjects (1-6) 1 subject from group 2 of ELR2B2-B type of subjects

- 7 out of 9 clusters of Poly courses require a Science subject in the ELR2B2 computation.

Which Science Combination should I choose?

1 Science	2 Sciences	3 Sciences
<ul style="list-style-type: none">• Combined Science	<ul style="list-style-type: none">• Combined Science + Pure Scienceor• 2 Pure Sciences	<ul style="list-style-type: none">• 3 Pure Sciences
<ul style="list-style-type: none">• Average interest and aptitude for Science	<ul style="list-style-type: none">• Strong interest and aptitude for relevant Sciences offered in the combination.	<ul style="list-style-type: none">• Very strong interest and aptitude for all 3 Sciences. Science is my strength.
<ul style="list-style-type: none">• Keen to pursue non-science related course in Poly	<ul style="list-style-type: none">• Keen to pursue H2 Science at A-Level	<ul style="list-style-type: none">• Keen to pursue H2 Science at A-Level

Information on New Sec 3 Express Subjects

- Combined Humanities
- Pure Geography
- English Literature
- Additional Mathematics
- Principles of Accounts
- Art
- Design & Technology
- Food & Nutrition
- http://www.seab.gov.sg/pages/nationalExaminations/GOL/School_Candidates/syllabus.asp

Combined Humanities

- Humanities (Social Studies, Geography) or
- Humanities (Social Studies, History)
- Students offering Pure Geography must choose SS + History Elective

Social Studies (2272 or 2273)

- Aims to prepare our students to be citizens of tomorrow by helping them to better understand the interconnectedness of Singapore and the world they live in, and appreciate the complexities of the human experience.
- Overview (3 key issues):
 - Issue 1: Exploring Citizenship and Governance
 - Issue 2: Living in a Diverse Society
 - Issue 3: Being Part of a Globalised World
- Assessment Objectives:
 1. Knowledge with Understanding
 2. Interpreting and Evaluating Sources / Given Information
 3. Constructing Explanations
- Assessment
 - 1 paper (1 hr 45 min)
 - Section A: (35 marks) One source-based case study testing Assessment Objectives 1 and 2
 - Section B: (15 marks) One structured-response question testing Assessment Objectives 1 and 3

Geography Elective (2272)

- Focus on the integrative study of physical and human environments to enable students to gain a better understanding of their own space and other parts of the world, as well as the interconnectedness among groups of people, and between people and their environment.
- Overview (6 key concepts)
 1. Space
 2. Place
 3. Scale
 4. Physical and Human Processes
 5. Environmental and cultural diversity
 6. Interdependence
- Assessment Objectives:
 1. Knowledge
 2. Critical Understanding and Constructing Explanation
 3. Interpreting and Evaluating Geographical Data
- Assessment
 - 1 paper (1 hr 40 min)
 - Section A: (13 marks) Structured question on Global Tourism or Variable Weather and Climate
 - Section B: (12 marks) Structured question on Global Tourism or Variable Weather and Climate
 - Section C: (25 marks) Structured question on Living with Tectonic Hazards or Food Resources

Pure Geography (2236)

- Assessment
 - Paper 1 (1 hr 40 min) (50%)
 - Section A: (25%) Structured question on Geographical Investigations
 - Section B: (25%) Structured question on Coasts or Global Tourism
 - Paper 2 (1 hr 30 min) (50%)
 - Section A: (25%) Structured question on Living with Tectonic Hazards or Variable Weather and Climate
 - Section B: (25%) Structured question on Food Resources or Health and Diseases

History Elective (2273)

- Seeks to develop in students a critical appreciation of past human experiences and connections between the past and present, by helping learners to become balanced, discerning, empathetic, enquiring, knowledgeable and methodical individuals able to make well-reasoned arguments and decisions.
- Overview (2 units)
 1. Unit 1 – The World in Crisis
What forces and developments changed Europe and the Asia–Pacific in the first half of the 20th century?
 1. Unit 2 – Bi-Polarity and the Cold War
How did the Cold War impact the world order in the post-1945 years?
- Assessment Objectives:
 1. Deploy Knowledge
 2. Construct Explanation and Communicate Historical Knowledge
 3. Interpret and Evaluate Source Materials
- Assessment
 - 1 paper (1 hr 40 min)
 - Section A: (30 marks) Source-Based Case Study
 - Section B: (20 marks) Structured-Essay Questions

Literature in English (2065)

- Aims to enable students to discover the joys of reading Literature, appreciate the aesthetic value of language, and engage personally with a variety of texts and draw connections between self, texts and the world in order to develop intellectual, emotional, socio-cultural, and global awareness.
- Assessment Objectives:
 1. Demonstrate, through close analysis, knowledge of the literary texts studied
 2. Respond with knowledge and understanding to a variety of literary texts of different forms
 3. Demonstrate understanding of the ways in which writers' choices of form, structure and language shape
 4. meanings
 5. Communicate a sensitive and informed personal response to what is read; and
 6. Express responses clearly and coherently, using textual evidence where appropriate.
- Assessment
 - Paper 1 (1 hr 40 min): Prose and Unseen Texts (e.g. Amy Tan: The Joy Luck Club)
 - Section A: Prose (25%) Answer 1 question from 7 set texts
 - Section B: Unseen Prose and Poetry (25%)- Answer 1 question based on an unseen prose extract or an unseen poem
 - Paper 2 (1 hr 30 min): Drama (e.g. George Bernard Shaw: Pygmalion)
 - Based on 1 out of 6 set texts, answer 1 compulsory passage-based question (25%), and
 - 1 essay question (25%)

FAQ 3

- Is it compulsory to include Humanities in the computation of L1R5, and if so, which Humanities subject should be included?
 - Yes, it is MOE's policy that at least one Humanities subject should be included in the L1R5 computation.
 - If your child is doing only Combined Humanities, then Combined Humanities will be included.
 - If he is doing Pure Literature or Pure Geography in addition to Combined Humanities, he will have a choice to include either one or both Humanities subjects.

FAQ 4

- How important are the Humanities subjects for admission to Polytechnics?
 - If your child is applying for admission to courses in commerce and business, mass media and communications, and psychology, a good grade in Humanities will stand him in good stead as these courses will require him to read widely and to have good analytical and writing skills.

Additional Mathematics (4047)

- Prepares students adequately for A-Level H2 Mathematics, where a strong foundation in algebraic manipulation skills and mathematical reasoning skills are required. Besides conceptual understanding and skill proficiency in the content, the development of process skills such as reasoning, communication and connections, thinking skills and heuristics are also emphasised.
- Overview (3 strands)
 1. Algebra
 2. Geometry and Trigonometry
 3. Calculus
- Assessment Objectives:
 1. Understand and apply mathematical concepts and skills in a variety of contexts
 2. Analyse information; formulate and solve problems, including those in real-world contexts
 3. Solve higher order thinking problems
- Assessment
 - Paper 1 (2 hr): 11–13 questions of varying marks and lengths (44 %)
 - Paper 2 (2 hr 15 min): 9-11 questions of varying marks and lengths (56 %)

FAQ 5

- Is Additional Mathematics very important for admission to JCs and Polytechnics?
 - It is a requirement for H2 Mathematics in JC but some JCs may consider allowing students with only GCE 'O' level Elementary Mathematics to study H2 Math in JC if the students qualify for the Science Stream.
 - For polys, both Elementary Maths and Additional Maths are subjects required in the ELR2B2 group 1 R2 subjects
- Can my child take Additional Mathematics as a private candidate concurrently if he did not meet the pre-requisite?
 - No. School candidate are not allowed to sign up other subjects as a private candidate in the national examination.

Principles of Accounts (7175)

- Aims to provide students with a meaningful basic introduction to financial accounting and to develop an appreciation of the discipline of accounting. It also emphasizes on the understanding and application of accounting knowledge to develop lifelong skills and values that will be of value in the increasingly complex world of business.
- Overview- develop students' ability in...
 1. Preparing
 2. Communicating
 3. Using
accounting information
- Assessment Objectives:
 1. Knowledge and Comprehension
 2. Application
 3. Analysis and Synthesis
 4. Evaluation
- Assessment
 - Paper 1 (1 hr): Answer 3 out of 4 Compulsory Questions (40%)
 - Paper 2 (2 hr): includes 1 compulsory question on preparation of financial statement (60%)

Art (6123)

- Aims to provide students with the opportunity to give form and meaning to their ideas, thoughts and feelings through visual and tactile forms. Visual literacy skills such as perceiving and responding to visual images, and analysis of visual information in its many forms are also developed.
- Overview (3 domains)
 1. Perceiving
 2. Communicating
 3. Appreciating
- Assessment Objectives:
 1. Gathering and Investigation of Information
 2. Exploration and Development of Ideas/Concepts
 3. Aesthetic Qualities
 4. Selection and Control of Materials and Technical Processes
 5. Personal Response
- Assessment
 - Paper 1: Coursework (60%)
 - Paper 2: Drawing & Painting (3 hr): questions will be given to students 3 weeks in advance (40%)

Design & Technology (7051)

- Aims to develop positive values and dispositions for enterprise, creativity and innovation through research and exploration, idea conceptualisation and development, communication, working with materials and tools in response to needs identified. It also aims to develop an awareness of design in social, cultural and environmental areas.
- Overview (3 Sections)
 1. Design
 2. Technological Areas
 3. Materials and Practical Processes
- Assessment Objectives:
 1. Knowledge with understanding
 2. Design problem solving
 3. Realisation
- Assessment
 - Paper 1: 2 hr Written Paper (30%)
 - Part A: 5 questions on design process & design content
 - Part B: 3 questions on Structures, Mechanisms and Electronics
 - Paper 2: Design Project (70%)

Food & Nutrition (6087)

- Aims to develop students' understanding of the concepts of nutrition and meal planning, the link between diet and health, the principles of food science, and to equip them with the knowledge and skills to make informed decisions concerning food and nutrition
- Assessment Objectives:
 1. Knowledge and Understanding (Paper 1)
 2. Analysis, Planning, Application and Evaluation in a given Coursework Task (Paper 2)
- Assessment
 - Paper 1: 2 hr Written Paper (40%)
 - Section A: short-answer type questions
 - Section B: structured type questions
 - Section C: open-ended type questions
 - Paper 2: Coursework (60%)
 - Assignment given at the start of the year, to be completed by July/August under teacher supervision.
 - Final folio of investigation and findings not exceeding 50 pages to be submitted.

Some Important Dates

- Fri 28 Jul Q&A session
- Mon 23 Oct Streaming Talk for Sec 2s
- Thu 26 Oct Submission of streaming form
- Thu 2 Nov Release of streaming results
- Fri 3 Nov Deadline for submission of appeals
- Thu 9 Nov Release of appeal results

Thank you for coming!