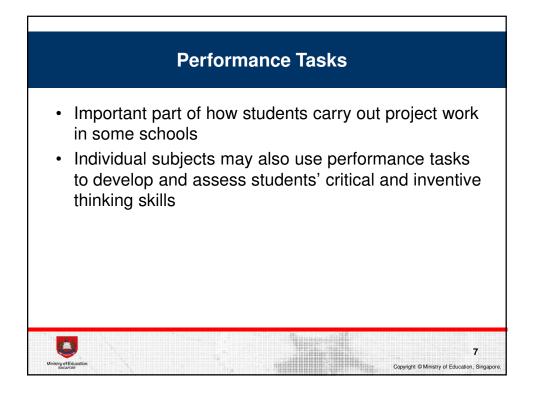
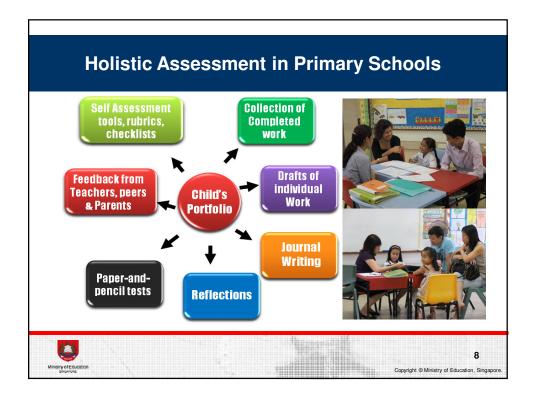
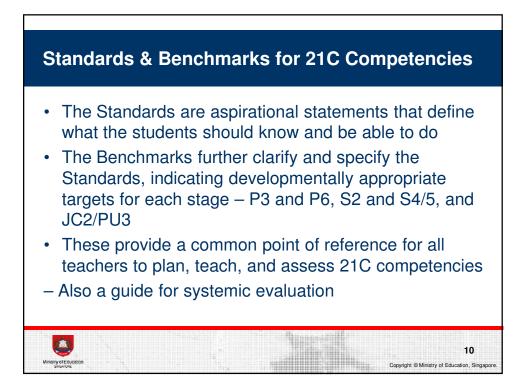


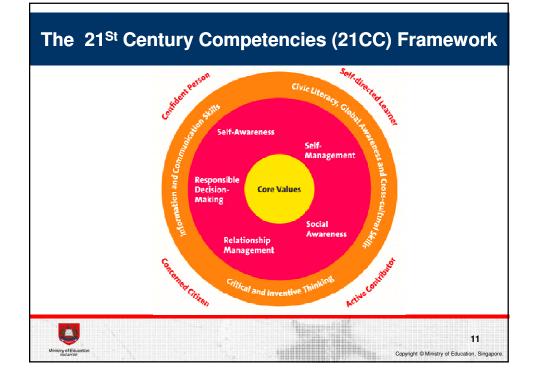
<b>.</b> .	
Domains	Learning Outcomes
Knowledge Application	Search for and access information from various sources (print, electronic, etc)
,, -	Analyse and evaluate research material
	Apply and transfer knowledge and skills
	learnt across disciplines to authentic situation
	😑 Generate ideas
Collaboration	Collaborate with others
Communication	Communicate ideas clearly and effectively
Independent	Monitor own learning
Learning	Demonstrate a positive and responsible
	attitude towards learning and work



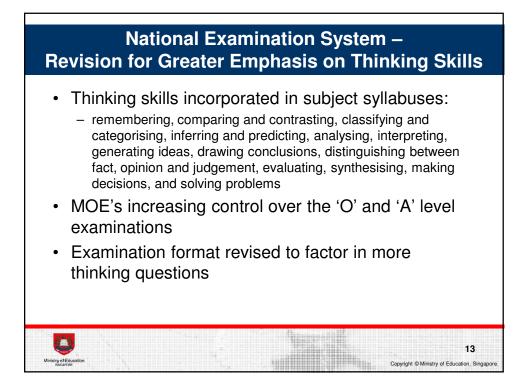


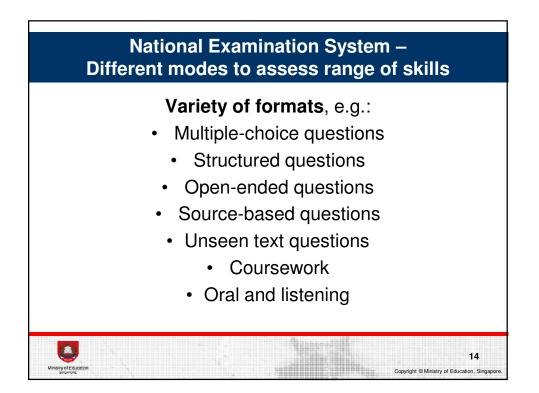
			Inventive Thin				
Learning Outcome	Generates novel ideas; exercises sound reasoning and reflective thinking to make good decisions; and manages complexities and ambiguities.						
		DH	AFT				
Standards	Benchmarks						
	By end of P3	By end of P6	By end of S2	By end of S4/S5	By end of JC2/PU3		
	1.1a	1.1b	1.10	1.1d			
CIT 1 Explores possibilities and generates ideas	The student is able to generate ideas to respond to an issue/ challenge.	The student is able to generate ideas and explore different pathways to respond to an issue/ challenge.	The student is able to generate ideas and explore different pathways that are appropriate for responding to an issue/ challenge.	The student is able to generate ideas and explore different pathways the solutions.			
CIT 2 Exercises sound reasoning and decision making	2.1a The student is able to explain his/her reasoning and decisions.	2.1b The student is able to use evidence to explain his/ her reasoning and decisions.	2.1c The student is able to use evidence and adopt different viewpoints to explain his/ her reasoning and decisions.	2.1d The student is able to use evidence and adopt different viewpoints to explain his her reasoning and decisions, having considered the implications of the relations among different viewpoints.			
	2.2a The student is able to recount relevant experiences which he/ she has learnt from.	2.2b The student is able to reflect on his/ her thoughts, attitudes, behaviour and actions during the learning experiences and determine the modifications required.		2.2d The student is able to suspend judgement, reasees conclusions and consider alternatives to refine his/ her thoughts, attitudes, behaviour and actions.			
CIT 3 Manages complexities and ambiguities	3.1a The student is able to identify the expectations of the task/ role and stay focused on them.	3.1b The student is able to identify essential elements of multiple tasks' roles, stay focused on them and persevere when he/ she encounters difficulties and unexpected challenges.		3.1d The student is able to identify essential elements of complex tasks, stay focused them, take on diverse roles and persevere when they encounter difficulties and unexpected challenges.			
		3.2b The student is able to accept different perspectives, solutions and/ or methods, even in the face of uncertainty.		3.2d The student is able to manage uncertainty and adapt to diverse demands and challenges in new and unfamiliar contexts.			

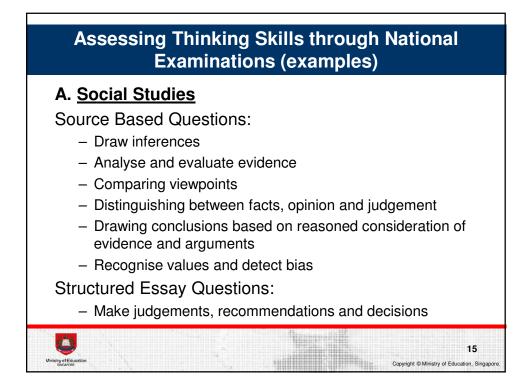


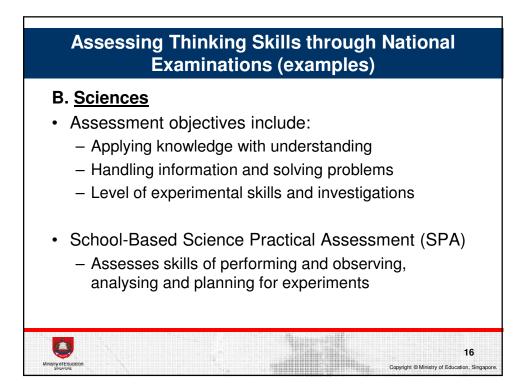


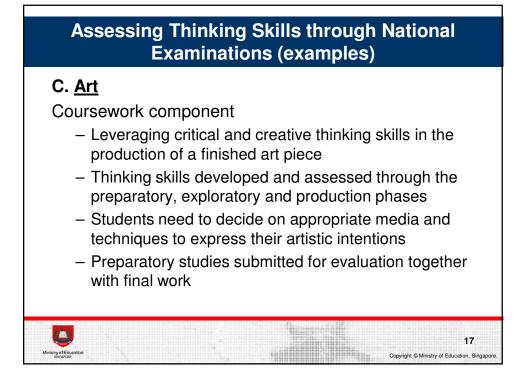
End of Grade 6 <b>PSLE</b> National 6	GCE N(T)- Level	End of Grade 10 GCE N(A)- Level	GCE O- Level	ard (SEAB) End of Grade 12 GCE A- Level
Grade 6 PSLE National e	GCE N(T)- Level	GCE N(A)-		12 GCE A-
National e	Level			
	exams			
<ul><li>curriculum</li><li>Used for education</li></ul>	n r emplaceme n maintain sta	ent with objection of students and for a students and for a student students and for a student s	s in next stag	e of their

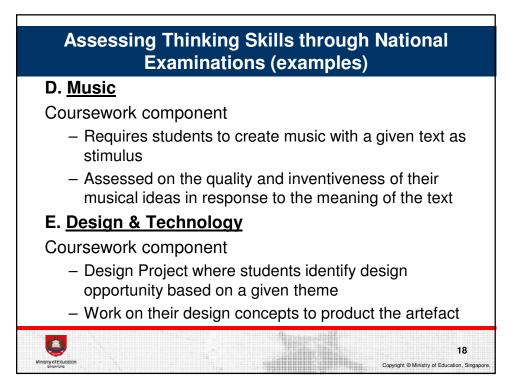












Criteria	Max Mk	Level 1	Level 2	Level 3	Level 4
Part A – The Desig	n Journal [	60 marks]			
Planning and Monitoring	10	1-2	3-5	6-8	9–10
		Need ongoing guidance to plan and ensure progress in work. Plan shows broad stages and is superficial.	Considerable guidance needed to plan and monitor progress in work. Plan shows broad stages with some details.	Some guidance needed to prepare a plan showing timed main stages and details that allows for monitoring of work progress.	Self-initiated plan that shows detailed realistic timed stages with time allocation for ongoing evaluation work and monitoring of work in progress.
Research	20	1-5	6-10	11-15	16-20
		No or little use of information gathered for decision making.	Some research with relevant information used for decision making.	Adequate research on main aspects of design project for decision making.	Thorough research, discriminating in selection of information and its use to support decision making.
Idea	30	1-7	8-15	16-23	24-30
Conceptualisation and Development		Little evidence of development of concept.	Aspects of concept explored with some evidence of refinement.	Concept developed in some aspects key to the need identified through doodles, annotated sketches and	Good concept thoroughly and thoughtfully developed in functionality aesthetics, ergonomics, materials,
		[Concept based on existing idea. No change in idea.]	[Decisions made. Process not evident]	mock ups via on-going evaluation.	production methods etc. through doodles, annotated sketches and mock ups via on-going evaluation.
Part B - Final Pres	entation: P	resentation Boards and Artefact [8	0 marks]		
Need Definition,	10	1-2	3-5	6-8	9–10
Design Brief and Specification		Unclear or general information on need, design brief and specifications.	A statement of need identified, design brief and some relevant factors established in response to the theme.	Clear definition of need identified, design brief and important factors established in response to the theme.	Clear definition of critical need identified, design brief and important factors established in response to the theme.
Presentation	15	1-3	4-7	8-11	12-15
Drawing	10	Lacking on both quality and detail.	Competent graphic presentation but lacking detail.	Competent graphic presentation with sufficient detail on design solution.	Competent graphic presentation with all detail showing contextual use of design solution.
Working Drawing	15	1-3	4-7	8-11	12-15
		Working drawing with materials list showing no or little details.	Working drawing with materials list showing main requirements.	Detailed working drawing with materials list.	Detailed working drawing with materials list. Drawing standards adhered to.
Artefact	30	1-7	8-15	16-23	24-30
	1972	Limited skill control with major inaccuracy and blemishes.	Average skill control with minor inaccuracy and blemishes.	Good skill control with good accuracy and some blemishes.	Excellent skill control with good accuracy and little blemishes.
Quality of Proposed Design Solution	10	1–2 Similar to existing idea with little attempt to value add.	3–5 A plausible solution.	6–8 An effective solution.	9–10 A desirable solution that simplifies or introduces new way of doing things and is likely to sustain user interest.

