

2021 Semester Plan
Sec 1E – Design & Technology

Term 1	Topic	Remarks
Week 1	Sec 1 School Orientation	
Week 2	1. Briefing on Logistics and Expectations 2. Introduction of D&T 3. Project 1 (Ez-link Card Holder) – Research & Ideation	
Week 3	1. Project 1 (Ez-link Card Holder) - Dimensioning 2. Project 1 (Ez-link Card Holder) – Mock-up 3. Project 1 (Ez-link Card Holder) – 3D Visualization	
Week 4	1. Project 1 (Ez-link Card Holder) – Rendering 3D Sketch 2. Project 1 (Ez-link Card Holder) – Introduction to Plastics and D&T Workshop Safety 3. Project 1 (Ez-link Card Holder) Practical – Marking-Out	
Week 5	1. Project 1 (Ez-link Card Holder) Practical – Shaping, Finishing & Assembly	
Week 6	2. Project 1 (Ez-link Card Holder) Practical – Evaluation of Prototype	CNY
Week 7	1. Project 2 (Tea Light Candle Holder) – Design Situation/Brief/Specifications 2. Revision for Written Assessment 1	<i>(Parent Updates)</i>
Week 8	1. Written Assessment 1 2. Project 2 (Tea Light Candle Holder) – Research	
Week 9	1. Checking of Written Assessment 1 2. Project 2 (Tea Light Candle Holder) – Ideation	
Week 10	1. Project 2 (Tea Light Candle Holder) – Morphing of Chosen 2D Design 2. Project 2 (Tea Light Candle Holder) – Dimensioning & Mock-up	
Term 2	Topic	
Week 1	1. Project 2 (Tea Light Candle Holder) – Introduction of Wood 2. Project 2 (Tea Light Candle Holder) Practical – Re-cap of Workshop Safety and Marking-out	
Week 2		Gd Fri
Week 3	1. Project 2 (Tea Light Candle Holder) – Introduction of Structures 2. Project 2 (Tea Light Candle Holder) Practical – Marking-out and Shaping	
Week 4		
Week 5	1. Project 2 (Tea Light Candle Holder) – Introduction to Mechanisms 2. Project 2 (Tea Light Candle Holder) Practical – Smoothing & Polishing	
Week 6	1. Project 2 (Tea Light Candle Holder) Practical – Assembly & Evaluation of Prototype 2. Insight to D&T in Sec 2	
Week 7	1. Project 2 (Tea Light Candle Holder) – Introduction to Orthographic Projection	

Week 8	Exploration of Makers' Corners (3D Scanning & Printing) (<i>Tentative</i>) 1. Designing and Modelling of Keychain 2. 3D Scanning and 3D Printing of Keychain	Hari Raya Puasa
Week 9		
Week 10	School Enrichment Activities	Vesak Day

**Please note that the topics might be subject to minor changes. Students will be updated accordingly.*

Assessments

	Weighting	Components
WA1	15%	*Written Test
WA2	15%	Project 1 (Design Assignment)
Final Exam	70%	Project 1 – Mock-up and Prototype Project 2 – Design Assignments, Mock-up and Prototype