

Peicai Secondary School
Subject Overview for Semester 2 / 2022
Design and Technology [Secondary Three (Normal Technical)]

Semester 2			
Term 3 [27 June – 2 September]			
Week	Chapter/Topic/Skill/Area	Assignment/Homework	Assessment
Week 1 [27 Jun - 1 Jul]	Sem 2 Overview Introduction to Project 2 - Drop Ball Game (coursework); <ul style="list-style-type: none"> • Overall Project Planning <ul style="list-style-type: none"> - Using Gantt Chart • Theme Analysis of Drop Ball Game <ul style="list-style-type: none"> - Introduction to Mood board • Identify Problem Situations <ul style="list-style-type: none"> - Using 5W1H method to analyze a design situation and linking to P.I.E.S needs 	Google Drive / Classroom (iPad) (i) Mood board (1 page) (ii) Problem Situations (2pages)	WA 3
Week 2 [4 Jul - 8 Jul] <i>4 Jul- Youth Day Holiday</i> <i>7Jul-HBL</i>	<ul style="list-style-type: none"> • Conduct research on existing products <ul style="list-style-type: none"> - Using PMI analysis technique. • Design Considerations <ul style="list-style-type: none"> - Using ACCESS FM to identify considerations, limitations/ constraint factors that designers will have to consider before designing a product. • Design Specifications & Design Brief <ul style="list-style-type: none"> - Extension on design considerations by providing more specific details and justification for the chosen specs. 	Google Drive / Classroom (iPad) (i) Existing Product Analysis (2 pages) (ii) Design Brief, Specs, Considerations (1 page)	WA 3
Week 3 [11 Jul - 15 Jul] <i>11 Jul- Hari Raya Haji</i>	<ul style="list-style-type: none"> • Ideation <ul style="list-style-type: none"> - Using Shape Borrowing and SCAMPER techniques to generate ideas for drop ball game. 	Google Drive / Classroom (iPad), Sketchbook App (i) Ideation using shape borrowing and SCAMPER (2 pages)	EYE
Week 4 [18 Jul - 22 Jul] <i>20 Jul- HBL</i>	<ul style="list-style-type: none"> • Ideation <ul style="list-style-type: none"> - Using Shape Borrowing and SCAMPER techniques to generate ideas for drop ball game. 	Google Drive / Classroom (iPad), Sketchbook App (i) Ideation using shape borrowing and SCAMPER (1 page)	EYE
Week 5 [25 Jul - 29 Jul]	<ul style="list-style-type: none"> • Ideation <ul style="list-style-type: none"> - Selection of Chosen Idea using decision matrix • Development of chosen idea <ul style="list-style-type: none"> - Drop ball path layout 	Google Drive / Classroom (iPad) (i) Idea Selection Matrix (1 page) (ii) Development	EYE

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	- Ball collection compartment	- Drop ball path layout (1 page) - Ball collection compartment (1 page)	
Week 6 [1 Aug - 5 Aug] <i>1 Aug- HBL</i>	<ul style="list-style-type: none"> • Making of prototype – Ball collection frame - Sanding and finishing - Wood - Filing, Sanding, Polishing - Acrylic Panel • Working Drawing - Orthographic Projection 	Google Drive / Classroom (iPad), Bring Apron (i) Orthographic Projection (1 page)	EYE
Week 7 [8 Aug - 12 Aug] <i>8 Aug - NDP Celeb 9 Aug -NDP 10 Aug - NDP Hol 11-12 Aug - WA3</i>	<ul style="list-style-type: none"> • Making of prototype – Ball collection frame - Sanding and finishing - Wood - Filing, Sanding, Polishing - Acrylic Panel 	Bring Apron	
Week 8 [15 Aug - 19 Aug] <i>15-17 Aug - WA3 (D&T Theory Paper)</i>	<ul style="list-style-type: none"> • WA3 Theory paper • Making of prototype – Ball collection frame - Sanding and finishing - Wood - Filing, Sanding, Polishing - Acrylic Panel 	Bring Apron	<u>Weighted Assessment 3</u> <i>Duration:1 hour, Marks : 40</i> <u>Topics/Areas to be tested:</u> Design topics
Week 9 [22 Aug - 26 Aug] <i>23 Aug - HBL</i>	<ul style="list-style-type: none"> • Go through WA3 Theory paper • Making of Prototype - Ball collection compartment - Sanding and finishing - Wood - Filing, Sanding, Polishing - Acrylic Panel 	Bring Apron	
Week 10 [29 Aug - 2 Sep] <i>1 Sep - TD Celeb (Thu) 2 Sep - TD Hol (Fri)</i>	<ul style="list-style-type: none"> • Making of Prototype - Ball collection compartment - Sanding and finishing - Wood - Filing, Sanding, Polishing - Acrylic Panel - Assembly of parts • Update of Gantt Chart for submission 	Google Drive / Classroom (iPad), Bring Apron (i) Gantt Chart (1 page) (ii) Final Prototype	EYE

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Term 4 [12 September – 28 October]			
Week	Chapter/Topic/Skill/Area	Assignment/Homework	Assessment
Week 1 [12 Sep - 16 Sep]	Theory Revision - Electronics - Mechanism - Design Process -	Revision Guidebook	
Week 2 [19 Sep - 23 Sep]	Theory Revision - Electronics - Mechanism - Design Process	Revision Guidebook	
Week 3 [26 Sep - 30 Sep]	End of Year Examination		
Week 4 [3 Oct - 7 Oct]	End of Year Examination		
Week 5 [10 Oct - 14 Oct]	Error Analysis		
Week 6 [17 Oct – 21 Oct] <i>19 Oct- Promotion Exercise</i>	Error Analysis		
Week 7 [24 Oct – 28 Oct] <i>24 Oct- Deepavali</i>	Post-examination Activities		

**This subject overview is tentative and is subject to changes.*