

Peicai Secondary School
Subject Overview for Semester 1 2023
Design & Technology | Secondary 3 | Express

Semester 1			
Term 1 [3 Jan – 10 Mar]			
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Weighted Assessment
Week 1 [2 Jan – 6 Jan]	Start Smart Program		
Week 2 [9 Jan – 13 Jan]	Start Smart Program		
Week 3 [16 Jan – 20 Jan] <i>18-Jan (Wed) timetable replaced with even week Monday timetable</i> <i>CNY celebrations, 20 Jan (Fri)</i>	<ul style="list-style-type: none"> ○ Class Admin. ○ Overview of D&T. ○ Workshop safety briefing: ○ Start of Project #1 [NIGHT LIGHT]: ○ Design Process Model (5 stages) ○ Theme Analysis of Night Light Technique Learnt: Mindmap- TB Pg 19 Analysis of Design Opportunities- TB pg 21	(i) Design Journal Sheets created of <ul style="list-style-type: none"> ○ Theme Analysis ○ Analysis of Design Opportunities 	-
Week 4 [23 Jan – 27 Jan] <i>CNY, 23 Jan (Mon) & 24 Jan (Tue)</i>	Overall Project Planning Using Gantt Chart (TB Chp 1 pg 10) User Profile (Senior Citizen, Child, Pet) Needs (PIES) Analysis (TB Chp 2 pg 23)	(ii) Design Journal Sheets created of <ul style="list-style-type: none"> ○ Project Timeline ○ Needs Analysis 	
Week 5 [30 Jan – 3 Feb] <i>HBL Day #1, 1 Feb (Wed)</i>	Product Analysis of existing Products and User Research Techniques Learnt : Using ACCESSFM (TB Chp 2 pg 25) Using Questionnaire (TB Chp 2 pg 28)	(iii) Design Journal Sheets created of <ul style="list-style-type: none"> ○ Product Analysis ○ Questionnaire results 	Component of WA 2
Week 6 [6 Feb – 10 Feb]	Technology : Electronics <ul style="list-style-type: none"> ○ Soldering of Night Light Circuit * Students to bring along their aprons	(iv) Design Journal Sheets created of <ul style="list-style-type: none"> ○ Electronics Circuit 	Component of WA 2
Week 7 [13 Feb – 17 Feb] <i>HBL Day #2, 15 Feb (Wed)</i>	Formulating Design Brief and Specs Technique Learnt (5W1H) (Tb Chp 2 pg 31 & 32)	(v) Design Journal Sheets created of <ul style="list-style-type: none"> ○ Design Brief and Specifications 	Component of WA 2
Week 8 [20 Feb – 24 Feb]	Shape Borrowing Ideation Techniques Learnt (Shape Borrowing/SCAMPER) Decision Matrix	(vi) Design Journal Sheets created of <ul style="list-style-type: none"> ○ Shape Borrowing Ideas ○ Decision Matrix 	Component of WA 2

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Week 9 [27 Feb – 3 Mar] <i>HBL Day #3, 1 Mar (Wed)</i>	Written Assessment Mock-up of Chosen Design Idea	(vii) Design Journal Sheets created of <ul style="list-style-type: none"> ○ Mock-Up Evaluation 	WA 1(15 %) Written Assessment on Design Question and Electronics
Week 10 [6 Mar – 10 Mar]	Start of Prototyping <i>* Students to bring along their aprons</i>		-
Term 2 [20 Mar – 26 May]			
Week	Chapter/Topic/Skill/Area	Assignment/Homework	Weighted Assessment
Week 1 [20 Mar – 24 Mar] <i>HBL Day #4, 22 Mar (Wed)</i>	Prototyping of Night Light Design	Improvements made to Design Journal Sheets based on Teacher Feedback	-
Week 2 [27 Mar – 31 Mar]	Prototyping of Night Light Design	Improvements made to Design Journal Sheets based on Teacher Feedback	
Week 3 [3 Apr – 7 Apr] <i>HBL Day #5, 5 Apr (Wed)</i> <i>Good Friday, 7 Apr</i>	Prototyping of Night Light Design	Improvements made to Design Journal Sheets based on Teacher Feedback	
Week 4 [10 Apr – 14 Apr]	Prototyping of Night Light Design & User Testing and Evaluation of Completed Design based on Design Brief and Specifications	(viii) Design Journal Sheets created of Product Evaluation	Submission Deadline for Prototype
Week 5 [17 Apr – 21 Apr] <i>HBL Day #6, 19 Apr (Wed)</i>	User Testing and Evaluation of Completed Design based on Design Brief and Specifications 3D Rendering of Final Completed Design with Mini PB (Presentation Boards)	Design Journal Checking	Component of WA 2
Week 6 [24 Apr – 28 Apr] <i>Hari Raya Puasa, 24 Apr (Mon)</i>	Consolidation of Design Journal Work (Updating and refinements made to documentation in journal sheets)	Design Journal Checking	Submission Deadline for Design Journal and Mini PB

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<p>Week 7 [1 May – 5 May]</p> <p><i>Labour Day, 1 May (Mon)</i></p> <p><i>HBL Day #7, 3 May (Wed)</i></p>	<p>Design Communication Skills (Project planning and documentation) (Gantt Chart and Flowchart)</p>		
<p>Week 8 [8 May – 12 May]</p>	<p>Design Communication Skills (How to do and document research in detail) Techniques in Primary/Secondary Research</p>	<p>Google Classroom- worksheet</p>	
<p>Week 9 [15 May – 19 May]</p> <p><i>HBL Day #8, 17 May (Wed)</i></p>	<p>Design Communication Skills (How to ideate and sketch design ideas) Ideation technique of Random Lines, ShapeBorrowing and SCAMPER to be covered</p>	<p>Google Classroom- worksheet</p>	
<p>Week 10 [22 May – 26 May]</p>	<p>Design Communication Skills (How to ideate and sketch design ideas) Ideation technique of Random Lines, ShapeBorrowing and SCAMPER to be covered</p>	<p>Google Classroom- worksheet -</p>	<p style="text-align: center;">-</p>

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