

Peicai Secondary School
Subject Overview for Semester 2 2023
Design & Technology | Secondary 2 | Express

1. Assessment Mode

Students will be assessed through two Design Projects that requires demonstration of the learning outcomes across the content sections of Design and Technology. This assessment mode comprises the following components; namely a design journal, mock-ups and prototypes which will be carried out over a few weeks during curriculum time.

2. Assessment Weightage

Components	WA3 (15%)	WA4 (15%)	End of Module (70%)
Deliverables	Ideas Conceptualisation	Rendered sketch of developed idea	Mock-Up and Final Prototype
Work Timeline	Term 3 Week 3 - 4	Term 3 Week 5 - 6	Term 3 Week 7 - Term 4 Week 2
Submission Deadline	Term 3 Week 5	Term 3 Week 7	Term 4 Week 2

3. Weekly Work Schedule

Term 3 [26 July – 01 Sept 2023]			
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment
Week 1 [26 Jun – 30 Jun] <i>Hari Raya Haji, 29 Jun</i>	<ul style="list-style-type: none"> • Class Admin. • Overview of D&T. • Workshop safety briefing: • Introduction of Design & Make Project [Photo Stand]: <ul style="list-style-type: none"> ○ Design Process Model (5 stages) ○ Design need, design brief and design specifications <p><i>* Students to bring along their iPad</i></p>	<ul style="list-style-type: none"> • Stating of design need, design brief and design specifications 	
Week 2 [3 Jul – 7 Jul] <i>Youth Day, 3 Jul</i>	<ul style="list-style-type: none"> • Project [Photo Stand]: <ul style="list-style-type: none"> ○ Research on photo stands ○ Generating of ideas using <u>Random Lines</u> or <u>Shape borrowing</u> ideation techniques <p><i>* Students to bring along their iPad</i></p>	<ul style="list-style-type: none"> • Existing products of photo stand • Ideas #1 - #8 	
Week 3 [10 Jul – 14 Jul]	<ul style="list-style-type: none"> • Project [Photo Stand]: <ul style="list-style-type: none"> ○ Research on photo stands ○ Generating of ideas using <u>Random Lines</u> or <u>Shape borrowing</u> ideation techniques <p><i>* Students to bring along their iPad</i></p>	<ul style="list-style-type: none"> • Ideas #9 - #16 	WA3 (15%) [Ideas #1-#16 assignment]

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Term 3 [26 July – 01 Sept 2023]			
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment
Week 4 [17 Jul – 21 Jul]	<ul style="list-style-type: none"> • Project [Photo Stand]: <ul style="list-style-type: none"> ○ Development of chosen idea ○ Working out details for prototyping <p><i>* Students to bring along their iPad</i></p>	<ul style="list-style-type: none"> • Work out dimensions of final idea 	WA3 (15%) [Ideas #1-#16 assignment]
Week 5 [24 Jul – 28 Jul]	<ul style="list-style-type: none"> • Project [Photo Stand]: <ul style="list-style-type: none"> ○ 3D sketch and rendering of developed idea (using iPad Sketchbook *) <p><i>* Students to bring along their iPad</i></p>	<ul style="list-style-type: none"> • Rendered sketch of developed idea 	WA4 (15%) [Rendered sketch of developed idea]
Week 6 [31 Jul – 4 Aug]	<ul style="list-style-type: none"> • Project [Photo Stand]: <ul style="list-style-type: none"> ○ 3D sketch and rendering of developed idea (using iPad Sketchbook *) <p><i>* Students to bring along their iPad</i></p>	<ul style="list-style-type: none"> • Rendered sketch of developed idea 	
Week 7 [7 Aug – 11 Aug] <i>National Day Celebration, 8 Aug</i> <i>National Day, 9 Aug</i> <i>National Day Sch Holiday, 10 Aug</i>	<ul style="list-style-type: none"> Project [Photo Stand]: <ul style="list-style-type: none"> ○ Building mock-ups for designing <p><i>* Students to bring along their aprons</i></p>	<ul style="list-style-type: none"> • Mock-ups making and evaluation 	
Week 8 [14 Aug – 18 Aug]	<ul style="list-style-type: none"> • Project [Photo Stand]: <ul style="list-style-type: none"> ○ Building mock-ups for designing ○ Planning the steps for prototyping <p><i>* Students to bring along their iPad</i></p>	<ul style="list-style-type: none"> • Mock-ups making and evaluation. • Planning prototyping steps 	End of Module (70%) [mock-up and final prototype]
Week 9 [21 Aug – 25 Aug]	<ul style="list-style-type: none"> • Project [Photo Stand]: <ul style="list-style-type: none"> ○ Making of prototype* <p><i>* Students to bring along their aprons</i></p>	<ul style="list-style-type: none"> • Prototyping 	
Week 10 [28 Aug – 1 Sep] <i>Teachers' Day Celebration, 31 Aug</i> <i>Teachers' Day, 1 Sep</i>	<ul style="list-style-type: none"> • Project [Photo Stand]: <ul style="list-style-type: none"> ○ Making of prototype* <p><i>* Students to bring along their aprons</i></p>	<ul style="list-style-type: none"> • Prototyping 	

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Term 4 [11 Sep – 27 Oct]			
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment
Week 1 [11 Sep – 15 Sep]	<ul style="list-style-type: none"> • Project [Photo Stand]: <ul style="list-style-type: none"> ○ Making of prototype* <p><i>* Students to bring along their aprons</i></p>	<ul style="list-style-type: none"> • Prototyping 	<i>End of Module (70%) [mock-up and final prototype]</i>
Week 2 [18 Sep – 22 Sep]	<ul style="list-style-type: none"> • Project [Photo Stand]: <ul style="list-style-type: none"> ○ Making of prototype* ○ Submission of completed prototype. <p><i>* Students to bring along their aprons</i></p>	<ul style="list-style-type: none"> • Prototyping 	
Week 3 [25 Sep – 29 Sep]	<ul style="list-style-type: none"> • Exploration of Technologies in D&T (Mechanism/Electronics) 	<ul style="list-style-type: none"> • Hands on lesson activity 	
Week 4 [2 Oct – 6 Oct]	END OF YEAR EXAMS		
Week 5 [9 Oct – 13 Oct]	END OF YEAR EXAMS		
Week 6 [16 Oct – 20 Oct]	Error Analysis Week/ Script Check		

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