

Peicai Secondary School
 Subject Overview for Semester 1 2023
 Design & Technology | Secondary 1 | 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 [Key Tag]: <ul style="list-style-type: none"> ○ Design Process Model (5 stages) ○ Design need, design brief and design specifications 	<ul style="list-style-type: none"> • Stating of design need, design brief and design specifications 	-
Week 4 [23 Jan – 27 Jan] <i>CNY, 23 Jan (Mon) & 24 Jan (Tue)</i>	<ul style="list-style-type: none"> • Project #1 [Key Tag]: <ul style="list-style-type: none"> ○ Random lines & curves ideation technique ○ Generating of ideas 	<ul style="list-style-type: none"> • Ideas #1 - #8 	WA1 (15%) [Ideas #1-#16 assignment]
Week 5 [30 Jan – 3 Feb]	<ul style="list-style-type: none"> • Project #1 [Key Tag]: <ul style="list-style-type: none"> ○ Random lines & curves ideation technique ○ Generating of ideas 	<ul style="list-style-type: none"> • Ideas #9 – #16 	
Week 6 [6 Feb – 10 Feb]	<ul style="list-style-type: none"> • Project #1 [Key Tag]: <ul style="list-style-type: none"> ○ 3D freehand sketch (chosen idea) ○ Rendering of freehand sketch (using colour pencils*) <p><i>* Students to bring along their colour pencils</i></p>	<ul style="list-style-type: none"> • 3D sketch of chosen idea • Rendered 3D sketch of chosen idea 	<u>Note:</u> WA1 (15%) submission deadline for ideation #1-#16 assignment
Week 7 [13 Feb – 17 Feb]	<ul style="list-style-type: none"> • Project #1 [Key Tag]: <ul style="list-style-type: none"> ○ Making of mock-up ○ Making of prototype* <p><i>* Students to bring along their aprons</i></p>	<ul style="list-style-type: none"> • Mock-up • Prototyping 	-
Week 8 [20 Feb – 24 Feb]	<ul style="list-style-type: none"> • Project #1 [Key Tag]: <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 	-

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Week 9 [27 Feb – 3 Mar]	<ul style="list-style-type: none"> • Start of Project #2 [Handphone Stand]: <ul style="list-style-type: none"> ○ Design Process Model (5 stages) ○ Design need, design brief and design specifications ○ 3D freehand sketch (existing product) 	<ul style="list-style-type: none"> • Stating of design need, design brief and design specifications • 3D sketch of existing products 	-
Week 10 [6 Mar – 10 Mar]	<ul style="list-style-type: none"> • Project #2 [Handphone Stand]: <ul style="list-style-type: none"> ○ 3D freehand sketch (existing product) ○ Shape borrowing ideation technique ○ Generating of ideas 	<ul style="list-style-type: none"> • 3D sketch of existing products • Ideas #1 - #5 	-
Term 2 [20 Mar – 26 May]			
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Weighted Assessment
Week 1 [20 Mar – 24 Mar]	<ul style="list-style-type: none"> • Project #2 [Handphone Stand]: <ul style="list-style-type: none"> ○ Generating of ideas ○ Development of chosen idea (with base) 	<ul style="list-style-type: none"> • Ideas #6 – #10 • Development of chosen idea 	-
Week 2 [27 Mar – 31 Mar]	<ul style="list-style-type: none"> • Project #2 [Handphone Stand]: <ul style="list-style-type: none"> ○ 3D presentation sketch ○ Rendering of 3D presentation sketch (using colour pencils*) <p><i>* Students to bring along their colour pencils</i></p>	<ul style="list-style-type: none"> • Rendered 3D presentation sketch 	WA2 (15%) [rendered 3D presentation sketch assignment]
Week 3 [3 Apr – 7 Apr] <i>Good Friday, 7 Apr</i>	<ul style="list-style-type: none"> ○ Project #2 [Handphone Stand]: <ul style="list-style-type: none"> ○ 3D presentation sketch ○ Rendering of 3D presentation sketch (using colour pencils*) ○ Basic Electronics & Soldering <p><i>* Students to bring along their colour pencils</i></p>	<ul style="list-style-type: none"> • Rendered 3D presentation sketch • Light circuit 	
Week 4 [10 Apr – 14 Apr]	<ul style="list-style-type: none"> • Project #2 [Handphone Stand]: <ul style="list-style-type: none"> ○ Soldering of light circuit* ○ Making of mock-up <p><i>* Students to bring along their aprons</i></p>	<ul style="list-style-type: none"> • Light circuit • Mock-up 	<u>Note:</u> WA2 (15%) submission deadline for rendered 3D presentation sketch assignment
Week 5 [17 Apr – 21 Apr]	<ul style="list-style-type: none"> • Project #2 [Handphone Stand]: <ul style="list-style-type: none"> ○ Soldering of light circuit* ○ Making of mock-up <p><i>* Students to bring along their aprons</i></p>	<ul style="list-style-type: none"> • Light circuit • Mock-up 	

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<p>Week 6 [24 Apr – 28 Apr]</p> <p><i>Hari Raya Puasa, 24 Apr (Mon)</i></p>	<ul style="list-style-type: none"> • Project #2 [Handphone Stand]: <ul style="list-style-type: none"> ○ Making of prototype* <p>* Students to bring along their aprons</p>	<ul style="list-style-type: none"> • Prototyping 	<p>End of Module (70%) [Mock-up, Light Circuit, Final Prototype]</p>
<p>Week 7 [1 May – 5 May]</p> <p><i>Labour Day, 1 May (Mon)</i></p>	<ul style="list-style-type: none"> • Project #2 [Handphone Stand]: <ul style="list-style-type: none"> ○ Making of prototype* <p>* Students to bring along their aprons</p>	<ul style="list-style-type: none"> • Prototyping 	
<p>Week 8 [8 May – 12 May]</p>	<ul style="list-style-type: none"> • Project #2 [Handphone Stand]: <ul style="list-style-type: none"> ○ Making of prototype* ○ Submission of completed prototype <p>* Students to bring along their aprons</p>	<ul style="list-style-type: none"> • Prototyping 	
<p>Week 9 [15 May – 19 May]</p>	<ul style="list-style-type: none"> • Project #2 [Handphone Stand]: <ul style="list-style-type: none"> ○ Making of prototype* ○ Submission of completed prototype <p>* Students to bring along their aprons</p>	<ul style="list-style-type: none"> • Prototyping 	<p><u>Note:</u> End of Module (70%) submission deadline for mock-up, light circuit, and final prototype</p>
<p>Week 10 [22 May – 26 May]</p>	<p>Enrichment Activities</p>	<p>-</p>	<p>-</p>

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