## YISHUN SECONDARY SCHOOL

Subject & Code: Design & Technology (7059) / (7055)

Level & Stream: Secondary 4 Express and Secondary 5 Normal Academic (7059); Secondary 4 Normal Academic

(7055)

	iculum and Approaches to Learning	Key Programmes / Competitions
At Secondary 4 & 5, the curriculum is mainly application of what students have learned in the past three years, through a theory paper (Paper 1) and a Design Project coursework (Paper 2).		Enrichment  - D&T Pupil Seminar  - EAE portfolio workshop
		<ul><li>Competitions</li><li>MOE D&amp;T Awards</li><li>Tan Kah Kee Young Inventors Award</li></ul>
Term	Learning Experiences (chapter, activity)	Learning Outcomes & Assessment
1	Seeking Design Opportunities Research skills Research analysis skills (using PIES, PMI and an empathetic heart) Making conclusion from research Generating the design brief and design specifications	Learning Outcomes  Producing a thoughtful design need based on relevant research  Weighted Assessment 1  Theory paper  Design Project Coursework (via regular feedback)
2	Idea Conceptualisation and Development  - Creativity skills (use of SCAMPER, Shape borrowing and other techniques)  - Using sketches and annotations to communicate thinking  - Decision making / evaluation techniques  Note: The design process is iterative and not linear.  As such, the timeline is only indicative of the general process flow.	Learning Outcomes  - Developing the design solution thoroughly and thoughtfully  Semestral Assessment - Theory paper - Design Project Coursework (via regular feedback)
3	Production Planning / Making - Applying basic working drawing skills - Applying making skills in any/all of the three resistant materials (wood, metal, plastic)  Throughout the Design Project coursework duration, students will plan and monitor their own progress through the use of a Gantt Chart, flow chart, sub-plans, and reflections.	Learning Outcomes  Producing a prototype that meets the defined intent  Preliminary Examination  Theory paper  Design Project Coursework (summative marking of the entire coursework)
4	Content Revision (content revision will also be done once a fortnight throughout the coursework duration through weekend assignment and feedback given at the following lesson)	Learning Outcomes  - Students to be prepared for full written exam theory paper (Paper 1)