

JOHN EDMONDSON HIGH SCHOOL Assessment Notification

Facultv:	Industrial Arts	

Course: iSTEM

Year: 9

Assessment Task: Design Folio and Practical

Assessment Weighting: 35% Due: Term 2 Week 5 Monday Date: 29/05/2024

Task Type: Hand in Task 🖂 In Class Task 🗌 Practical Task 🖂

Outo	comes assessed (NESA)
•	ST5-1 designs and develops creative, innovative, and enterprising solutions to a wide range of STEM-based
	problems
•	ST5-2 demonstrates critical thinking, creativity, problem solving, entrepreneurship and engineering design skills and
	decision-making techniques in a range of STEM contexts
•	ST5-3 applies engineering design processes to address real-world STEM-based problems
•	ST5-4 works independently and collaboratively to produce practical solutions to real-world scenarios
•	ST5-5 analyses a range of contexts and applies STEM principles and processes
•	ST5-6 selects and safely uses a range of technologies in the development, evaluation, and presentation of solutions
	to STEM-based problems
•	ST5-7 selects and applies project management strategies when developing and evaluating STEM-based design
	solutions
•	ST5-8 uses a range of techniques and technologies, to communicate design solutions and technical information for
	a range of audiences
•	ST5-9 collects, organises, and interprets data sets, using appropriate mathematical and statistical methods to inform
	and evaluate design decisions
•	ST5-10 analyses and evaluates the impact of STEM on society and describes the scope and pathways into
	employment.
Task	Description/Overview
	nautical Engineering - Skylan project

Aeronautical Engineering – Skylap project Detailed Assessment Task Description

Complete the Skylap booklet and the production of your plane

Assessment Criteria				
Grade	Description	Mark Range		
Outstanding (O)	The student has an extensive knowledge and understanding of the content and can readily apply this knowledge. In addition, the student has achieved a very high level of competence in the processes and skills and can apply these skills to new situations.	90-100		
High (H)	The student has a thorough knowledge and understanding of the content and a high level of competence in the processes and skills. In addition, the student is able to apply this knowledge and these skills to most situations.	80-89		
Sound (S)	The student has a sound knowledge and understanding of the content and has achieved a good level of competence in the processes and skills.	60-79		
Basic (B)	The student has a basic knowledge and understanding of the content and has achieved a basic level of competence in the processes and skills.	30-59		
Limited (L)	The student has an elementary knowledge and understanding in a few areas of the content and still required further work to achieve competence in the processes and skills.	0-29		

Satisfactory completion of courses

A course has been satisfactorily completed, when the student has:

- Followed the course developed/endorsed by the NSW Educational Standards Authority (NESA)
- Applied himself/herself with diligence and sustained effort to the set tasks and experiences provided in the course.
- Achieved some or all of the course outcomes

Year 9 iSTEM

Skylap Folio & Practical Production

Student Name:

		MARKS	Max
Complete the 10 questions throughout the folio	 Accuracy of responses Evidence of research Use of own words 		30
Testing and recording results	 Completeness of testing and recording Evidence of working towards a goal 		30
One page of design concepts	 A range of quality ideas with annotations and different views Ability to communicate graphically 		10
Design of experimental aircraft	 Creativity Originality Success in achieving adequate lift Good take-off and landing 		30
Quality of construction of experimental aircraft	 Miminal use of glue Symmetry Accuracy in marking out and cutting 		10
Complete the general evaluation questions	Considered responses		5
Folio	Work presented neat, accurate and stapled		5
Total			120