Wee Waa High School

Assessment Task Notification

FACULTY: TAS/Science

Student Name:		**Class: 7TECH**
Title: You Can Build a Bridge, but Can You Get Over It?		
Assessment Task Number:	**Course:** Engineered Systems	**Weighting:** 25%
Teacher/s:	Miss A. McLennan (alana.mclennan3@det.nsw.edu.au)	**Issue Date**: 28/08/2025 (WK 4)
Type:	Research and Practical	**Due Date:** 24/11/2025 (WK 7)
Allocated Lessons:	4 (theory) and 3 (practical)	**Time:** Testing from Period 5 (2:10pm)

Syllabus outcomes being assessed:

TE4-1DP designs, communicates and evaluates innovative ideas and creative solutions to authentic problems or opportunities

TE4-8EN explains how force, motion and energy are used in engineered systems

TE4-10TS explains how people in technology related professions contribute to society now and into the future

Assessment Presentation Guidelines:

- **This notification must be attached to the task when submitted**
- **Booklet:** Using class lessons to complete, hand in this paper-based workbook in person.
- **Project:** Marked in class on the due date.

Task Description:

TASK DETAILS:

For this assessment task you are required to complete both a practical and theoretical component. You will engage with the design process as you research, plan, make and evaluate your own solution for a bridge that holds weight.

The **practical** component of your assessment will involve small (2-3) groups creating a bridge that can bear a weight (decided on the day). You will be provided with the materials and time in class to create your bridge applying knowledge of class concepts.

The **theoretical** component is individual. It will require you to record your design processes and reflect on your successes and possible improvements in class. There will a scaffolded booklet for each student. You will also complete an investigation into the styles of bridges to justify your own choices.

The booklet will cover the following points:

- Bridge research
- Statement of intent
- Design Scenario
- Idea Generation and finalisation (description, drawing/image pasted in)
- Materials Research
- Processes

Evaluation (statement and image of project)

Declaration of Authenticity

I certify that:

- **The planning, development, content and presentation of this assessment task is my own work in every respect**
- **This assessment task has not been copied from another person's work or from books or the internet or any other source**
- **I have used appropriate research methods and have not used the words, ideas, designs, music, images, skills or workmanship of others without appropriate acknowledgement in this assessment task or in its development**
- **By submitting my assessment task electronically, I acknowledge this declaration of authenticity of my work**

_____ _____

Student Signature **Date**

Feedback

Students will receive verbal and written feedback, both throughout and upon completing their task

Marking Criteria:
You will be assessed on your ability to:

	A	B	C	D	E
TE4-1DP Designs, communicates and evaluates innovative ideas and creative solutions to authentic problems or opportunities.	Exceptionally innovative and highly functional design; exceeds all criteria with creative problem-solving.	Innovative and functional design; meets most criteria with some creative problem-solving.	Basic design that meets some criteria; limited creativity in problem-solving.	Incomplete or unclear design; does not meet most criteria; lacks creativity.	Lacks a functional design; does not address the criteria effectively.
	Provides two detailed sketches of intended bridge design with comprehensive annotation that is easily understood.	Provides two clear sketches of intended bridge design with relevant annotations that are mostly understandable.	Provides one or two sketches of intended bridge design with minimal annotations that are somewhat understandable.	Provides a sketch that is poorly drawn or lacks clarity and has little to no annotations.	Provides no sketches or irrelevant sketches of the intended bridge design.
TE4-8EN Explains how force, motion and energy are used in engineered systems.	Provides a comprehensive description of the force, motion and energy are used in chosen style of bridge.	Provides a clear description of the forces, motion, and energy used in the chosen style of bridge.	Provides a basic description of the forces, motion, and energy relevant to the chosen style of bridge.	Provides a vague description of the forces, motion, and energy related to the chosen style of bridge.	Provides little to no analysis of the energy, force, and motion in their own bridge project.
	Provides detailed and comprehensive analysis of the energy, force, and motion working in their own bridge project.	Provides a thorough analysis of the energy, force, and motion working in their own bridge project.	Provides a general analysis of the energy, force, and motion in their own bridge project.	Provides a limited analysis of the energy, force, and motion in their own bridge project.	Provides little to no analysis of the energy, force, and motion in their own bridge project.

TE4-10TS Explains how people in technology related professions contribute to society now and into the future.	Insightful and detailed reflection; creative and effective solutions to challenges, linking to how this would work in a real-life situation.	Thoughtful reflection; identifies effective solutions to challenges and makes connections to real-life applications.	Simple reflection; mentions some challenges faced and suggests basic solutions with limited real-life connections.	Minimal reflection on challenges faced with little to no suggestions for solutions or connections to real life.	Shows no reflection on challenges faced or offers irrelevant or no solutions.
				TOTAL	

Teacher Feedback: