


## Stage 5 Assessment Program

	<b>FACULTY:</b>	Industrial Arts	<b>SUBJECT</b>	Engineering Technology
	<b>TEACHER:</b>	Mr Lindsay	<b>STUDENT</b>	
	<b>TIMING:</b>	Engineering Core Module 1 - Structures		
	<b>TOPIC:</b>	Great Engineers Past & Present		
	<b>DATE DUE:</b>	Term 1, Week 8		
	<b>WEIGHTING:</b>	20%		

### Context

Students are delving into the Engineering field and being challenged on their ability to apply Engineering principles and designs to model their own Engineering projects. Presently the students are designing and constructing a balls Bridge to test for strength and durability. In being able to design and construct their Engineering projects student need to appreciate the Legendary Engineers who have set their name in stone as the pillars of Engineering Genius. This assessment is for students to appreciate and gain a knowledge of what Engineers have made our life easier.

### Outcomes

- 5.5.1** - Applies and transfers acquired knowledge and skills to subsequent learning experiences in a variety of contexts and projects.
- 5.7.2** - Describes, analyses and evaluates the impact of technology on society, the environment and cultural issues locally and globally.

### Description of Task

In this task students are to research the achievements of Engineers and document a written explanation that utilises images and diagrams. A student should be capable of completing a single page per Engineer to give themselves the best chance of gaining the highest mark.

#### Step 1:

Students are to select 5 Engineers from the following list:

1. Isambard Kingdom Brunel
2. James Dyson
3. William George Armstrong
4. Henry Bessemer
5. John Roebling
6. Rudolf Diesel
7. Leonardo Da Vinci
8. Robert Stevenson
9. Alec Issigonis
10. Archimedes

#### Step 2:

Now students are to research and document the following criteria:

11. Engineers Name
12. Origin
13. Born / Died / Age
14. Engineering Discipline
15. Engineering Achievements / Significant Projects

## Stage 5 Assessment Program

### Criteria for Assessing Learning

(these criteria would be normally be communicated to students with the activity.)

Students will be assessed on their ability to:

- clearly communicates and documents their understanding of the achievements of past and present Engineers by implementing thorough researching skills to find written and visual content.
- applies ICT skills in producing a high quality word processed document that showcases the capabilities of the software program and the students understanding of such software.

### Guidelines for Marking

Range	A student in this range:
15-20 (High)	<ul style="list-style-type: none"><li>• Selects 5 Engineers and substantially documents their achievements/ significant projects as per the criteria stated.</li><li>• Incorporates a high range of communication techniques in a single document.</li><li>• Produces a print document of high quality that integrates text and graphics incorporating a range of skills.</li></ul>
8-14 (Satisfactory)	<ul style="list-style-type: none"><li>• Selects 3 or more Engineers and documents some of the criteria stated in the task description.</li><li>• Uses a limited-moderate range of communication techniques.</li><li>• Produces a quality print document that integrates text and graphics demonstrating the successful application of more than one skill.</li></ul>
1-7 (Progressing)	<ul style="list-style-type: none"><li>• Selects 3 or less Engineers and does not directly address the criteria stated for the task.</li><li>• produces a text only document.</li><li>• produces an elementary print document demonstrating limited skill.</li></ul>

### Feedback

Students are given written feedback in the form of a marking sheet. Comments inform them about the quality of information, user friendliness, visual appeal and document layout.

### Resources

All students are expected to complete a BIBLIOGRAPHY of every book, magazine, website, Youtube clip and tv program that they may have used to compile their document. The final assessment must be handed in with this section or it will be returned to have this completed.

### Plagiarism

This is a serious issue in all schools, as a requirement students are to NEVER copy and paste content from any website. This style of content is to be used as reference material to compile a document written in their own words. PLAGIARISM is traceable and can be dealt with severe consequences.

**“Do not Plagiarise, make sure it is all your own work!”**

.....

.....

.....

.....

.....

.....

.....