MANILLA CENTRAL SCHOOL - ASSESSMENT TASK NOTIFICATION 2022

Stage 4 Technology Mandatory: Industrial

Mr C Smith

Task Number: 2 Weight: 40% Notification Date: Friday 18/03/2022 Term 1, Week 7 Due Date: Friday 01/04/2022 during class, Term 1, Week 9



Practical Project

OUTCOMES ASSESSED

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

TE4-2DP plans and manages the production of designed solutions

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

TASK DESCRIPTION

Practical Project: Assessment of rubber band race car project and its completion and at the due date.

Evidence of Engineering Cycle: Students must include evidence of initial planning and design, and any modifications that they have made to their design while undertaking an engineering cycle.

TASK INSTRUCTIONS

Practical Project:

The timber-based practical project will be completed throughout the term during practical lessons, during which the teacher will demonstrate and oversee the correct and safe working processes being implemented.

The project to be completed is a Rubber Band Race Car. Students are responsible for undertaking an engineering cycle when designing and constructing their rubber band race car, while working within pre-determined structural parameters. The car will comprise of a timber car body, 2 dowel axles, 3-4 timber wheels, and any additional aerodynamic features. The car is to be powered by a single rubber band, supplied by the teacher.

Practical Skills	Project Mark
 Produces high quality work with accurate attention to detail. Quality of work is evident through a strong knowledge of techniques and processes. Project functions smoothly and effectively as intended. Evidence of completing the engineering cycle is included, showing 3 or more modifications made to the initial design. 	32-40
 Produces sound quality work with mostly accurate attention to detail. Quality of work is evident through a sound knowledge of techniques and processes. Project functions effectively as intended. Evidence of completing the engineering cycle is included, showing 2 modifications made to the initial design. 	24-31
 Produces basic quality work. Accuracy and attention to detail is sometimes evident. Some knowledge of correct techniques and processes are evident. Project functions as intended. Evidence of completing the engineering cycle is included to demonstrate a modification has been made to the initial design. 	16-23
 Project is incomplete and basic quality. Demonstrates a simple understanding of correct techniques and processes to construct a product. Project functions sometimes. Student has provided evidence of an attempted engineering cycle. 	8-15
 Project is incomplete and some components are not present. Demonstrates a limited understanding of correct techniques and processes. Project has limited functionality. Engineering cycle is not complete. 	1-7
Non-attempt or does not meet the course outcomes.	0
ask Mark	l
ask Rank	
Accumulative Rank	

Head Teacher's signature:

Deputy Principal's Signature:

Ms M Eagles

Ms A Lawrence