



Gorokan High School

10X Elective Assessment Schedule 2023

STEM

Task number	Task 1	Task 2	Task 3	Task 4	
Name of Task	Practical Task – Construct a tower from paper	Research Task – Famous failures	Practical Task – 3D modelling/LEGO	Mechatronics Research Task	
Task Due	Term 1, Week 8	Term 2, Week 2	Term 3, Week 5	Term 4, Week 5	
Outcomes assessed	5.5.1 to 5.5.2	5.6.1 to 5.6.2	5.7.1	5.8.1	
Components					Task Weighting %
Knowledge and Understanding	5	20	10	15	50
Skills – Working Scientifically	15	10	10	15	50
Total %	20	30	20	30	100

Course Outcomes:

5.1.1 develops ideas and explores solutions to STEM based problems

5.1.2 demonstrated initiative, entrepreneurship, resilience and cognitive flexibility through the completion of practical STEM based activities

5.2.1 describe how scientific and mechanical concepts relate to technological and engineering practice

5.2.2 applies cognitive processes to address real world STEM based problems in a variety of contexts

5.3.1 applies a knowledge and understanding of STEM principles and processes

5.3.2 identifies and uses a range of technologies in the development of solutions to STEM based problems

5.4.1 plans and manages projects using an iterative and collaborative design process

5.4.2 develops skills in using mathematical, scientific and graphical methods whilst working as a team

5.5.1 applies a range of communication techniques in the presentation of research and design solutions

5.5.2 critically evaluates innovative, enterprising and creative solutions

5.6.1 selects and uses appropriate problem solving and decision making techniques in a range of STEM contexts

5.6.2 will work individually or in teams to solve problems in STEM contexts

5.7.1 demonstrates an appreciation of the value of STEM in the world in which they live

5.8.1 understands the importance of working collaboratively, cooperatively and respectfully in the completion of STEM activities