**TAS FACULTYASSESSMENT TASK NOTIFICATION**

**Subject: Technology (Mandatory)**

**Task: STEM Fundamentals Report**

**Stage: 5 Year: 9**

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| TOPIC/MODULE/UNIT OF WORK: |

STEM Fundamentals

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| WEIGHTING (AS PER ASSESSMENT SCHEDULE): |

25%

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| DUE DATE: |

Term 1, Week 11

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| TIME ALLOWED: |

2 weeks

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| OUTCOMES: |

5.2.1, 5.3.1, 5.5.2, 5.6.1, 5.6.2

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| OUTLINE OF TASK: |

During the STEM Fundamentals Unit of Work you have taken part in Four STEM Challenges and developed skills and knowledge in STEM studies. In this task you are to write an evaluation report that describes those challenges and the STEM principles that you have investigated.

You are asked to present your research in an information report. Use the ALARM Matrix for Years 7-9 to assist. A scaffold outlining the format and required information is attached.

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| ADDITIONAL INFORMATION & CAMPUS ASSESSMENT POLICY: |

This is a formal assessment item. Absence due to illness, funeral, family situation, etc. must be supported by a medical certificate, presented to the Head Teacher on the first day of your return to school, irrespective of your timetable for this subject. You must be prepared to attempt the task on the first day of your return to school – i.e. when your medical certificate expires.

**Penalties for unacceptable late submission and non-attempt of assessment** are as follows: One day late- 10% of total mark; Two days late- 20% of total mark; Three days late- 30% of total mark; Four days late- 40% of total mark; Five days late- 50% of total mark; More than five days late- mark of zero. If the work has not been submitted after a week the student/s involved will re-attempt the task in order to meet course outcomes.

**If plagiarism is evident an automatic mark of zero will be given and the student/s involved will re-attempt the assessment.**

If the assessment is a serious non-attempt or non-attempt noted by both the Teacher and Head Teacher the student will receive zero and will re-attempt the assessment in order to meet course outcomes. Any form of malpractice and misadventure will also result in parental contact by the respective teacher and student/s involved in the **malpractice may be further supported through the ‘Leichhardt Way’.**

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| ASSESSMENT CRITERIA: |

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| Outcome | Mark | A – Outstanding (5) | B – Very Good (4) | C – Good (3) | D – Satisfactory (2) | E – Insufficient Detail (1) |
| 5.2.1 describe how scientific and mechanical concepts relate to technological and engineering practice |  | Student *analyses* the scientific principles that impacted on each challenge. | Student *describes* the scientific principles that impacted on each challenge. | Student *identifies* the scientific principles that impacted on each challenge. | Student *identifies* the scientific principles that impacted on most challenges. | Student does not clearly *identify* the scientific principles that impacted on most challenges. |
| 5.3.1 applies a knowledge and understanding of STEM principles and processes |  | Student *analyses* the core STEM processes that impacted on each challenge. | Student *describes* the core STEM processes that impacted on each challenge. | Student *identifies* the core STEM processes that impacted on each challenge. | Student *identifies* the core STEM processes that impacted on most challenges. | Student does not clearly *identify* the core STEM processes that impacted on most challenges. |
| 5.5.2 critically evaluates innovative, enterprising and creative solutions |  | Student *critically* *evaluates* each challenge *describes* creative solutions they used. | Student *evaluates* each challenge *identifying* creative solutions they used. | Student *evaluates* each challenge. | Student *describes* each challenge. | Student has not provided a full record of challenges. |
| 5.6.1 selects and uses appropriate problem solving and decision making techniques in a range of STEM contexts |  | Student *analyses* how they solved problems and made decisions in each challenge. | Student *describes* how they solved problems and made decisions in each challenge. | Student *identifies* how they solved problems and made decisions in each challenge. | Student *identifies* how they solved problems and made decisions in most challenges. | Student does not clearly *identify* how they solved problems and made decisions in most challenges. |
| 5.6.2 will work individually or in teams to solve problems in STEM contexts |  | Student *analyses* their role and the roles of others in the team challenges. | Student *describes* their role and the roles of others in the team challenges. | Student *identifies* their role in the team challenges. | Student *identifies* their role a challenges. | Student does not clearly identify their role in any challenge. |
| TOTAL MARK |  |  |  |  |  |  |
| Weighted Mark |  |  |  |  |  |  |

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| SAMPLES (INDICATING DIFFERING STANDARDS OF ACHIEVEMENT): |  |

Samples are not available as this is the first time this unit of work has been run. A scaffold will be provided and examples of ALARM reports will be run through in class.