



<b>Task Number</b>	1	<b>Task Name</b>	Independent Student Project
<b>Course</b>	Year 10 Science	<b>Faculty</b>	Science
<b>Teacher</b>	Sulek, Hodgman, Anderson, Allen	<b>Head Teacher</b>	Mr Yates
<b>Issue date</b>	Wk2 Term 1	<b>Due date</b>	5 <sup>th</sup> April 2024
<b>Focus (Topic)</b>	Investigation Skills	<b>Task Weighting</b>	25%

### Outcomes

A student:

SC5 4WS: Develops questions or hypotheses to be investigated scientifically

SC5 5WS: Produces a plan to investigate identified questions, hypotheses or problems, individually and collaboratively

SC5 6WS: Undertakes first-hand investigations to collect valid and reliable data and information, individually and collaboratively

SC5 7WS: Processes, analyses and evaluates data from first-hand investigations and secondary sources to develop evidence-based arguments and conclusions

SC5 8WS: Applies scientific understanding and critical thinking skills to suggest possible solutions to identified problems

SC5 9WS: Presents science ideas and evidence for a particular purpose and to a specific audience, using appropriate scientific language, conventions and representations.

### Task description

Students are to plan, conduct, analyse and communicate an individual practical investigation. There will be three weeks dedicated in class to teaching the explicit skills required to succeed in the task. The investigation must be quantitative which means that they take measurements not observations.

Each student will be provided with a scaffold that they need to complete. From this completed scaffold, students need to complete a scientific report. **The scaffold and the report are required to be submitted at the same time on the due date.**

As there is a research element, students will need to include a reference list. These sources of information need to be referenced appropriately. The school's referencing guide is attached to the task to assist this.

## Marking Guidelines

CRITERIA	MARK %
<b>Outstanding</b> The student has an extensive knowledge and understanding of the content and can readily apply this knowledge. In addition, the student has achieved a very high level of competence in the processes and skills and can apply these skills to new situations.	90-100
<b>High</b> The student has a thorough knowledge and understanding of the content and a high level of competence in the processes and skills. In addition, the student is able to apply this knowledge and these skills to most situations.	75-89
<b>Sound</b> The student has a sound knowledge and understanding of the main areas of content and has achieved an adequate level of competence in the processes and skills.	50-74
<b>Basic</b> The student has a basic knowledge and understanding of the content and has achieved a limited level of competence in the processes and skills.	25-49
<b>Limited</b> The student has an elementary knowledge and understanding in few areas of the content and has achieved very limited competence in some of the processes and skills.	0-24
<ul style="list-style-type: none"><li>• Late submission – no misadventure</li><li>• Assessment not submitted</li></ul>	Parental notification