

## AUSSEF Judging Criteria

Each student's project is judged on the criteria listed in column 2 of the table below and assigned a score (from 1-5) as shown in column 3 of the table.

Aspects*	Judging Criteria for <i>Mathematics projects</i>	Score
1. Research question or problem	A research question or problem that: 1.1 has a clear and focused purpose 1.2 identifies prior contributions to the field of study 1.3 identifies the significance of the question or problem for Mathematics and or society 1.4 uses critical thinking to identify a problem-solving approach	1-5 1-5 1-5 1-5
2. Formulation and methodology	A solution process and methodology that: 2.1 has a well-constructed plan 2.2 uses appropriate strategies to formulate and solve problems 2.3 uses symbols and appropriate mathematical terminology 2.4 demonstrates depth of understanding in mathematical strategies	1-5 1-5 1-5 1-5
3. Execution: Logical thought and application	Logical thought and application that: 3.1 exhibits a systematic approach to a problem 3.2 has verifiable results 3.3 uses an appropriate application of mathematical and statistical methods 3.4 analyses trends and patterns to support interpretation and solutions	1-5 1-5 1-5 1-5
4. Creativity and or innovation	4. Significant creativity and or innovation shown in one or more of the aspects of the project <sup>#</sup>	1-5 (x4)
5. Conclusion and discussion	A conclusion and discussion that: 5.1 identifies the potential impact of the findings and conclusion for mathematics, science and/or for society 5.2 demonstrates understanding, interpretation and limitations of the calculations and conclusions 5.3 demonstrates logical thought and critical thinking to explain and justify conclusions 5.4 suggests meaningful and relevant ideas for further strategic development	1-5 1-5 1-5 1-5
6. Presentation and communication	A communication process that: 6.1 addresses purpose and audience 6.2 demonstrates logical organisation of material 6.3 has neat and elegant solution processes 6.4 provides evidence of a high degree of independence of the student	1-5 1-5 1-5 1-5
<b>Total score</b>		<b>120</b>

\*Drawn from ISEF criteria sections; # The *Creativity and innovation* aspect is weighted to provide equal value with the other aspects of the criteria