

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>Scientific Investigations</i>	Score
1. Research question	A research question 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 project hypothesis for Science and or society 1.4 is testable using scientific methods	1-5 1-5 1-5 1-5
2. Design and methodology	A design process and methodology that: 2.1 has a well-constructed plan 2.2 uses appropriate data collection methods to deliver reliable results 2.3 has well defined and appropriate variables and controls to deliver valid results 2.4 demonstrates depth of understanding in methodological approaches	1-5 1-5 1-5 1-5
3. Execution: Data collection, analysis and interpretation	Data collection and analysis that: 3.1 exhibits a systematic process 3.2 has reproducible results 3.3 uses an appropriate application of mathematical and statistical methods 3.4 collects sufficient data to support interpretation and conclusions	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 [#]	1-5 (x4)
5. Conclusion and discussion	A conclusion and discussion that: 5.1 identifies the potential impact of the findings and conclusion for science and/or for society 5.2 demonstrates understanding, interpretation and limitations of the results and conclusions 5.3 demonstrates depth of understanding in relevant concepts and processes 5.4 suggests meaningful and relevant ideas for further research	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 clearly illustrated graphics and legends 6.4 provides evidence of a high degree of independence of the student	1-5 1-5 1-5 1-5
Total score		120

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