

Renewable Energy Rubric

| | Approaching (2) | Meeting (3) | Mastery (4) |
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| Inquiry of renewable energy resource | An energy resource is chosen without context. Background information is superficial. | Little evidence of personal engagement and initiative in choosing the resource. Background information is relevant. | An energy resource is clearly described. Evidence of personal engagement is clear with significant independent thinking. Background information enhances understanding. |
| Planning and conducting experiment | Methodology of the investigation is appropriate to a limited extent. Limited awareness of safety, ethical or environmental issues. | The methodology of the investigation is mainly appropriate. Some consideration of reliability and sufficiency of the collected data, as well as safety, ethical or environmental issues. | Evidence of personal input and initiative in the designing, implementation or presentation of the experiment. Plans include safety considerations, indigenous perspectives, and attention paid to measurement uncertainty |
| Processing and analyzing data | Insufficient raw data to support a valid conclusion to the research question. Some basic data processing is carried out. Little consideration of the impact of measurement uncertainty. | The report includes relevant but incomplete raw data. Appropriate data processing is carried out. Some consideration of measurement uncertainty | The report includes sufficient raw data. Sufficient data processing is carried out with the accuracy required to enable a conclusion that is fully consistent with the experimental data. Full consideration of the impact of measurement uncertainty. |
| Applying and innovating | Strengths and weaknesses of the investigation are restricted to an account of procedural issues faced. Very few realistic suggestions for the improvement and extension of the investigation. | Some realistic and relevant suggestions for the improvement and extension of the investigation. Strengths and weaknesses of the investigation, such as limitations of the data and sources of error, are described. | Student has discussed realistic and relevant suggestions for the improvement and extension of the investigation. Strengths and weaknesses of the investigation are discussed and provide evidence of a clear understanding of the issues involved. |