

**Young Scientist Awards**

**JUDGING RUBRIC: STANSW Scientific Investigation - Survey, Years 3-4**

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| Level | Description |
| 5 | The student has provided clear and convincing evidence that he/she:   * completed a **well-planned** survey of a specific area of interest * had shown **originality** in the selection of site or method of data collection * had a **good understanding** of the science concepts used in the survey * **gathered relevant** background information * **carefully selected** materials and equipment * **accurately** gathered data in a variety of sample areas that are **representative** of the wider study area * **systematically** recorded data, using an appropriate **mapping** technique * analysed data, performing some form of **distribution analysis** * made **valid** conclusions and suggested ideas for **further survey work** * documented **each stage** of the surveying process in a log book * **acknowledged** **all** assistance given * used effective **communication skills** taking intoaccount,purpose and audience |
| 4 | The student has provided substantial evidence that he/she:   * completed a **planned** survey of a specific area of interest * demonstrated **some innovative** or creative aspects * had **reasonable** understanding of the related science concepts * performed **some relevant** background research * selected **suitable** materials and equipment * gathered data in a **few** sample areas, representative of the wider study area * recorded data using a **suitable** mapping technique * explained **most** trends, patterns and relationships in the data collected * included a log book **detailing** the different stages of the surveying process * **acknowledged** any assistance given * used **effective** language and formatting to communicate with the intended audience |
| 3 | The student has provided evidence that he/she:   * completed a survey containing **elements of detail** * had shown **glimpses** of innovation or creativity * demonstrated an **understanding** of the science concepts used in the survey * performed **some** background research * **used** suitable equipment * collected and recorded **first-hand** data * proposed **sound** explanations for the data collected * provided **supporting** documentation in the accompanying log book * **acknowledged some** of theassistance that was given * used **appropriate** language to communicate with the intended audience |

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| Level | Description |
| 2 | The student has provided evidence that he/she:   * completed a broad survey **without** much **attention to detail** * set the survey in **some sort** of scientific context * collected **fragments** of background research * gathered data but was unable to **clearly** present it * offered **sketchy** explanations for the data collected * presented a logbook that was either **fragmented** or **too brief** * **informally** mentionedassistance given * used language and formatting that **did not connect** with the intended audience |
| 1 | The student has provided evidence that he/she:   * attempted a survey with a **lack of understanding** of sampling * had **inadequate** understanding of the related science concepts * **failed** to gather first-hand data * offered explanations for results that could **not be supported** * **did not maintain** a suitable log book * **failed to acknowledge** assistance given |