

 **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
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| 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
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| 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
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| 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
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