## JUDGING RUBRIC: STANSW Scientific Investigation - Survey, Years 5–6

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| 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 into account, 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 the assistance that was given  
  - used **appropriate** language to communicate with the intended audience |
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| 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** mentioned assistance 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 |