### JUDGING RUBRIC: STANSW Scientific Investigation, Years K-2

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<th>Level</th>
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| 5     | The student has provided clear and convincing evidence that they:  
  - actively completed a scientific investigation that incorporated fair testing  
  - had shown originality in the idea and creativity in the investigative methods  
  - had a clear understanding of the relevant science concepts  
  - collected background information and made appropriate predictions  
  - carefully selected suitable materials and equipment  
  - collected meaningful and sufficient data  
  - systematically recorded data and included appropriate graphical display with or without digital technologies  
  - justified strategies and suggested plausible explanations for the results  
  - made valid conclusions that show how the investigation is important  
  - used a logbook to map the progress of the investigation over time  
  - acknowledged all assistance given  
  - used effective language and formatting to communicate with the intended audience |
| 4     | The student has provided substantial evidence that they:  
  - participated in a scientific investigation that incorporated fair testing  
  - had shown some creativity in the selection of the idea or in the methodology  
  - outlined the scientific concepts related to the investigation  
  - collected background research with some relevance to the subject of investigation  
  - made a prediction  
  - had considered the final choice of selected materials and equipment  
  - collected relevant and adequate data  
  - correctly recorded data  
  - discussed trends and relationships in data collected  
  - used a logbook to record raw data and tasks performed  
  - listed any assistance given  
  - used appropriate language to communicate with the intended audience |
| 3     | The student has provided evidence that they:  
  - participated in a science investigation which incorporated some fair testing  
  - had shown glimpses of creativity  
  - had some understanding of the science concepts related to the investigation  
  - collected fragments of background research  
  - made some sort of prediction  
  - used suitable equipment  
  - collected and recorded relevant data  
  - analysed data and came to a conclusion  
  - included a log book that contains notes and ideas  
  - acknowledged some of the assistance that was given  
  - used consistent language in all documentation |
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| 2     | The student has provided evidence that they:  
  ● attempted a science investigation with **minimal understanding** of fair testing  
  ● had shown **little or no** creativity  
  ● had **little** understanding of the science concepts related to the investigation  
  ● **attempted** to make a prediction  
  ● collected and recorded **some** data  
  ● offered **poor** explanations for the data collected  
  ● included a log book that is **minimal or disorganised**  
  ● **failed to acknowledge** assistance given  
  ● used language and formatting that **did not connect** with the intended audience |
| 1     | The student has provided evidence that they:  
  ● attempted an investigation with **no understanding** of fair testing  
  ● had **poor** understanding of the **science concepts** related to the investigation  
  ● collected **random** data  
  ● offered explanations that were not related or plausible  
  ● **did not maintain** a suitable log book |