

Marking Guidelines – Year 8 Student



Research Project 2018

Due Date	Outcomes Assessed	Criteria	Marks Awarded
Week 4	SC4-4WS identifies questions and problems that can be tested or researched and makes predictions based on scientific knowledge	<p>Project Title Research question stated appropriately. Question can be investigated scientifically.</p>	/1
	SC4-5WS collaboratively and individually produces a plan to investigate questions and problems	<p>Aim Correctly identify the purpose of an investigation</p>	/2
		<p>Hypothesis Appropriate hypothesis stated. Which identifies two variables.</p>	/2
		<p>Independent variable identified correctly.</p>	/1
		<p>Dependent variable identified correctly.</p>	/1
		<p>Three controlled variables identified correctly.</p>	/2
		<p>Appropriate equipment and materials identified.</p>	/2
		<p>Appropriate risk assessment conducted and presented.</p>	/2
Week 5	SC4-5WS collaboratively and individually produces a plan to investigate questions and problems	<p>Logical method is described. Method is:</p> <ul style="list-style-type: none"> • Written in steps (1) • Shows logical sequence/progression (1) • Mentions variables (1) • Mentions controlled variables (1) • Includes repetition (the use of trials) (1) • Clearly describes data collection process and units (1) 	/6
Week 7	SC4-6WS follows a sequence of instructions to safely undertake a range of investigation types, collaboratively and individually	<p>Photo diary. 4 pictures to document the student carrying out the investigation. Pictures should illustrate the safe assembly, construction and manipulation of equipment, as well as the collection of data. Photos must be accompanied by descriptive captions and include the student.</p>	/4

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	<p>SC4-7WS processes and analyses data from a first-hand investigation and secondary sources to identify trends, patterns and relationships, and draw conclusions</p> <p>SC4-9WS presents science ideas, findings and information to a given audience using appropriate scientific language, text types and representations</p>	<p><u>Table</u> Results presented accurately and honestly</p> <ul style="list-style-type: none"> • Title (1) • Headings used for rows and columns (1) • Ruler used (1) • Averages calculated for trials (1) 	/4
Week 8	<p>SC4-9WS presents science ideas, findings and information to a given audience using appropriate scientific language, text types and representations</p>	<p><u>Graph</u> Clearly shows relationships between variables.</p> <ul style="list-style-type: none"> • Title (1) • Labels axis, appropriate units included (1) • Correct axis selected for each variable (1) • Correct plotting (1) 	/4
	<p>SC4-7WS processes and analyses data from a first-hand investigation and secondary sources to identify trends, patterns and relationships, and draw conclusions</p>	<p><u>Discussion</u> <u>Student analyses patterns and trends in data</u> to correctly describe relationships observed between variables. Student analyses trials for consistency.</p>	/3
	<p>SC4-7WS processes and analyses data from a first-hand investigation and secondary sources to identify trends, patterns and relationships, and draw conclusions</p> <p>SC4-9WS presents science ideas, findings and information to a given audience using appropriate scientific language, text types and representations</p>	<p><u>Explanation of results and observations</u></p> <ul style="list-style-type: none"> • Uses scientific understanding to identify the relationships and draw conclusions based on the students data. (3) • Checks reliability of student data by comparing with other sources. (1) • Presents ideas and findings using scientific language. (2) 	/6

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	<p>SC4-7WS processes and analyses data from a first-hand investigation and secondary sources to identify trends, patterns and relationships, and draw conclusions</p> <p>SC4-6WS follows a sequence of instructions to safely undertake a range of investigation types, collaboratively and individually</p> <p>SC4-8WS Selects and uses appropriate strategies, understanding and skills to produce creative and plausible solutions to identified problems</p>	<p><u>Evaluate Improvements</u></p> <ul style="list-style-type: none"> • Reflected on the method used. (2) • Suggested improvements in the method. (2) • Evaluate the appropriateness of the experiment in solving the problem. (1) 	/5
	<p>SC4-7WS processes and analyses data from a first-hand investigation and secondary sources to identify trends, patterns and relationships, and draw conclusions</p> <p>SC4-4WS identifies questions and problems that can be tested or researched and makes predictions based on scientific knowledge</p>	<p><u>Conclusion</u></p> <ul style="list-style-type: none"> • Outlines whether data supports or discounts the hypothesis and draws overarching conclusion based on scientific knowledge. • Proposes areas for future investigation. 	/2
	<p>SC4-9WS presents science ideas, findings and information to a given audience using appropriate scientific language, text types and representations</p>	<p><u>Bibliography</u> Student uses a recognised method to acknowledge sources of data and information.</p>	/2
	<p>SC4-6WS follows a sequence of instructions to safely undertake a range of investigation types, collaboratively and individually</p>	<p><u>Self Evaluation</u> Worked safely and responsibly when working collaboratively to complete a task.</p>	/1
Total Marks			/50
Comment			

