

# Marking criteria

Section: Experimental Research

Division: Primary (4 – 6)

VELS: Level 3, progressing to level 4

Student name: .....

Links to VELS progression points – Science at Work	CRITERION	H 3	M 2	L I	NS 0
<p><b>VELS 3.25</b> - planning of experiments, incl. statements of purpose</p> <p><b>VELS 3.5 &amp; 3.75</b> - design &amp; reporting of experiments, incl. statements of purpose</p>	<p><b>Introduction</b> Outline why you chose this topic. Describe how you got started.</p>	Includes detailed, clear & relevant information	Includes relevant information but is incomplete &/or unclear	Attempted with little relevant information	Not done
	<p><b>Aim(s)</b> Describe what you are trying to find out. What do you think will happen?</p>	Clear description, good structure. Includes prediction.	Acceptable description & structure; no or inappropriate prediction.	Unclear &/or poor structure; no prediction	Not done
<p><b>VELS 3.25</b> - planning &amp; reporting of experiments, incl. lists of materials &amp; equipment, &amp; labeled diagrams that explain procedures. - Systematic collection of data - application of safe &amp; ethical procedures in performing experiments</p> <p><b>VELS 3.5</b> - design &amp; reporting of experiments, labeled diagrams &amp; symbols that explain procedures &amp; justification for equipment used. - Systematic collection of data to enable reasonable conclusions to be drawn - application of safe &amp; ethical procedures in performing experiments; responsible handling of specialized equipment &amp; materials</p> <p><b>VELS 3.75</b> - design &amp; reporting of experiments, labeled diagrams &amp; symbols that explain procedures &amp; justification for type of data collected &amp; equipment used. - Systematic collection &amp; analysis of data including valid conclusions &amp; identification of relationships between variables - application of safe &amp; ethical procedures including risk management plans for handling of equipment &amp; materials.</p>	<p><b>Materials</b> List all equipment and materials that you used.</p>	Appropriate materials used; thorough listing	Acceptable materials used, but limited	Limited listing &/or choice of materials poor	Not done
	<p><b>Method (What I did)</b> List everything you did, in order (like a recipe).</p>	Appropriate methodology- well ordered & thorough	Acceptable methodology- Acceptable order & completeness	Weak methodology- poor order, missing parts	Not done
	<p><b>Results</b> Record your results systematically &amp; include everything you found out. Include graphs, tables, pie charts, photos, etc to help show your results.</p>	Systematic, comprehensive & includes good range of appropriate presentation methods. Excellent quality of information/data.	Acceptable recording & quality of information/data. Limited range of presentation methods.	Little or no attempt to use a range of presentation methods. Some inappropriate or incorrect information/data	Not done
	<p><b>Discussion</b> Discuss your results. Include how you could improve your experiments.</p>	Excellent discussion of results. Appropriate suggestions made for improvement.	Acceptable discussion of results. Limited attempt at suggestions for improvement.	Limited discussion of results. Little or no suggestions for improvement.	Not done
	<p><b>Conclusion</b> List the main things you have discovered or found out – what do your results tell you?</p>	Excellent conclusion drawn.	Acceptable conclusion drawn.	Limited conclusion drawn.	Not done
	<p><b>Acknowledgements and references</b> List any books or websites you used. Include a list of people who gave you help or advice.</p>	Complete and correctly referenced	Complete with some incorrect referencing; or correctly referenced but incomplete	Incomplete or incorrectly referenced	Not done

**STS-specific & not directly related to VELS progression points**

<b>CRITERION</b>	<b>H 3</b>	<b>M 2</b>	<b>L 1</b>	<b>0</b>
<b>Originality and creativity</b> Topic is original and interesting.	Highly original & interesting	Some elements of originality; interesting	Little or no originality	Not done
<b>Overall presentation</b> Report is clearly presented (logical and readable).	Clear & logical report.	Moderately clear and logical.	Poor clarity & logic.	Not done
<b>Acknowledgements and references</b> List any books or websites you used. Include a list of people who gave you help or advice.	Complete and correctly referenced	Complete with some incorrect referencing; or correctly referenced but incomplete	Incomplete or incorrectly referenced	Not done

**Total score = \_\_\_ / 33**