

Biology 1.2: Report on a biological issue

	Research Questions. Refine a given or agreed question or purpose	Biological Ideas Make multiple links involving the biological ideas related to the question or purpose	Planning the Research. Completing a research log book and record sheets of information sources [Timeline – 3 classroom periods plus one homework slot]	Collecting, Recording, Processing Relevant Information. Collecting/recording primary and secondary data and/or information from a range of sources. (at least 3 sources) Evaluating relevance of information by checking reliability and validity of sources of information	Analysing Relevant Information and Data. Identifying different points of view supported by the evidence	Creating New Knowledge Taking and justifying a position with a recommendation for action	Presenting Findings in a Research Report [2 classroom periods to write up]
Prestructural	I need help to come up with a relevant focusing question/s	I need help to identify a biological idea related to the question.	I need help to start looking for resources. I need help to identify my research tasks and timeline and chart them in my log book.	I need help to find resources and collect information I need help to organise and keep records of what I find.	I simply represent what I have discovered without identifying different points of view supported by the evidence. I use only one data representation method- e.g. writing or podcasting	I need help to take a position and justify it.	I try to communicate my research findings to others in my research report but I need help to provide a summary and a bibliography.
Unistructural Multistructural	I have relevant focusing questions to bring in facts and information. E.g who, what, why when, where questions	I have described biological ideas related to the biological issue in the question I have created a concept map identifying biological ideas related to the issue	I have ideas about the resources I will need and how I will access them. My log book, research tasks, timeline and record sheets of information sources are generally correct.	I have collected accurate and relevant information from more than one type of resource I have recorded the information clearly and appropriately	I have identified and described at least two different points of view about the biological issue. I have used more than one data representation method; e.g. Maps, graphs, tables, paragraphs, diagrams, podcasts, video, Diigo, Netvibes, Google Apps, Jott, Twitter, Del.icio.us tags	I have taken a position on a biological issue	I have communicated a clear summary of my research findings in my research report. I provide a bibliography

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Relational</p>	<p>I have relevant focusing questions to bring in facts and information and to link these facts in different ways.</p> <p>E.g define, describe, sequence, classify, compare, explain causes, analysis (part whole)</p>	<p>I have described several biological ideas related to the biological issue in the question and explain why they are related to the issue.</p> <p>I have created a concept map identifying and inter-linking biological ideas related to the issue</p>	<p>I have planned how I will collect all the different resources linked to my inquiry context.</p> <p>My log book , research tasks, timeline and record sheets of information sources are complete and I have made annotations and explanations where appropriate.</p>	<p>I have collected a range of clear, relevant and reliable information from a number of different relevant resources</p> <p>I have recorded the information clearly and appropriately in more than one format/method/or platform</p>	<p>I have identified, described and explained at least two different points of view about the biological issue.</p> <p>I have used a range of appropriate data representation methods to make links between data</p>	<p>I have taken a position on a biological issue and can give reasons justifying my position.</p>	<p>I have communicated a clear summary of my research findings in a report format that is easily understood by the report reader (audience).</p> <p>I provide a full bibliography that allows the sources to be found by others</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Extended Abstract</p>	<p>I have a range of relevant focusing questions to bring in facts and information, to link these facts in different ways, and to look at these linked ideas in a new way</p> <p>E.g. define, describe, sequence, classify, compare, explain causes, analysis (part whole), justify, generalise, predict, evaluate etc</p>	<p>I have described several biological ideas related to the biological issue in the question and explained why they are related.</p> <p>I have created a concept map describing, explaining and evaluating the many different ways these biological ideas influence (link) to each other and the biological issue.</p>	<p>I have planned how I will collect all the different resources linked to my inquiry context and include contingencies if things don't go to plan.</p> <p>My log book , research tasks, timeline and record sheets of information sources and completed with explanations and annotations where appropriate. I have made predictions and allowances for tasks that may not fit the plan.</p>	<p>I have collected a range of clear, relevant, reliable and valid information from a number of different relevant resources</p> <p>I have recorded the information clearly and appropriately using a range of appropriate recording methods.</p> <p>I have indicated the level of reliability and validity of the data collected by commenting on; usefulness accuracy of biological information up to date/recent fact or opinion sources of bias</p>	<p>I have identified, described and explained at least two different points of view about the biological issue. I have evaluated these points of view and determined which is closest to my point of view.</p> <p>I have used a wide range of appropriate data representation methods to link, extrapolate and interpolate data.</p>	<p>I have taken a position on a biological issue and can give reasons justifying my position.</p> <p>I have evaluated my position and used my findings to make a recommendation/s for action</p>	<p>I have communicated a clear summary of my research findings in a report format that is easily understood by the audience and enables them to critique or review my findings and recommendations for action.</p> <p>I include a full bibliography and include web based tagging and web annotation.</p>