

## Biology 1.2: Report on a biological issue

	<b>Research Questions.</b> Refine a given or agreed question or purpose	<b>Biological Ideas</b> Make multiple links involving the biological ideas related to the question or purpose	<b>Planning the Research.</b> Completing a research log book and record sheets of information sources  [Timeline – 3 classroom periods plus one homework slot]	<b>Collecting, Recording, Processing Relevant Information.</b> 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	<b>Analysing Relevant Information and Data.</b> Identifying different points of view supported by the evidence	<b>Creating New Knowledge</b> Taking and justifying a position with a recommendation for action	<b>Presenting Findings in a Research Report</b> [2 classroom periods to write up]
<b>Prestructural</b>	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.
<b>Unstructural Multistructural</b>	I have relevant focusing questions to bring in facts and information.  E.g who, what, why when, where questions	I have <b>described</b> biological ideas related to the biological issue in the question  I have <b>created a concept map</b> 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 <b>described</b> 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 <b>taken a position</b> on a biological issue	I have communicated a clear summary of my research findings in my research report.  I provide a bibliography

<b>Relational</b>	<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 <b>described</b> several biological ideas related to the biological issue in the question and <b>explain</b> why they are related to the issue.</p> <p>I have <b>created a concept map</b> 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, <b>described and explained</b> 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 <b>taken a position</b> 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>
<b>Extended Abstract</b>	<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 <b>described</b> several biological ideas related to the biological issue in the question and <b>explained</b> why they are related.</p> <p>I have <b>created a concept map</b> 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, <b>described and explained</b> 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 <b>evaluated</b> 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>