VCE Biology: Performance descriptors

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| **VCE BIOLOGY****SCHOOL-ASSESSED COURSEWORK** |
| **Performance descriptors: ‘Analysis and evaluation of a contemporary bioethical issue’** |
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| ***Unit: <insert>******Outcome: <insert no.>******<insert outcome statement>*** |  | **DESCRIPTOR: typical performance in each range** |
| **Key Science Skill**  | **Very Low** | **Low** | **Medium** | **High** | **Very high** |
| *Generate, collate and record data* | Limited collation of appropriate secondary data and identification of some appropriate ways to organise and present data through diagrams, flow charts, tables and graphs relevant to the selected bioethical issue. | Some collation of appropriate secondary data and selection and use of some appropriate ways to organise and present data through diagrams, flow charts, tables and graphs relevant to the selected bioethical issue. | Suitable collation of appropriate secondary data and selection and use of appropriate ways to organise and present data through diagrams, flow charts, tables and graphs relevant to the selected bioethical issue. | Competent collation of appropriate secondary data and effective selection and use of appropriate ways to organise and present data through diagrams, flow charts, tables and graphs relevant to the selected bioethical issue. | Thorough collation of appropriate secondary data and proficient selection and highly appropriate use of ways to organise and present data through diagrams, flow charts, tables and graphs relevant to the selected bioethical issue. |
| *Construct evidence-based arguments and draw conclusions* | Limited ability to distinguish between opinion, anecdote and evidence, and scientific and non-scientific ideas relevant to the selected bioethical issue.  | Some ability to distinguish between opinion, anecdote and evidence, and scientific and non-scientific ideas relevant to the selected bioethical issue. | Sound ability to distinguish between opinion, anecdote and evidence, and scientific and non-scientific ideas relevant to the selected bioethical issue. | Competent ability to distinguish between opinion, anecdote and evidence, and scientific and non-scientific ideas relevant to the selected bioethical issue. | Highly proficient ability to distinguish between opinion, anecdote and evidence, and scientific and non-scientific ideas relevant to the selected bioethical issue. |
| Very limited use of data and reasoning to construct scientific arguments and responses consistent with the evidence available for the selected bioethical issue. | Some appropriate selection and use of data and reasoning to construct scientific arguments and responses consistent with the evidence available for the selected bioethical issue. | Appropriate selection and use of data and reasoning to construct scientific arguments and responses consistent with the evidence available for the selected bioethical issue. | Effective use of data and reasoning to construct scientific arguments and responses consistent with the evidence available for the selected bioethical issue.  | Insightful selection and use of data and reasoning to construct scientific arguments and responses consistent with the evidence available for the selected bioethical issue. |
| *Analyse, evaluate and communicate scientific ideas* | Very limited use of appropriate biological terminology, representations and conventions relevant to the selected bioethical issue. | Limited use of appropriate biological terminology, representations and conventions relevant to the selected bioethical issue. | Mostly appropriate biological terminology, representations and conventions relevant to the selected bioethical issue. | Effective and appropriate biological terminology, representations and conventions relevant to the selected bioethical issue. | Proficient and highly appropriate biological terminology, representations and conventions relevant to the selected bioethical issue. |
| Limited interpretation and discussion of biological information ideas, concepts, relationships, theories and models and connections between them relevant to the selected bioethical issue. | Some appropriate interpretation and discussion of the biological information ideas, concepts, relationships, theories and models and connections between them relevant to the selected bioethical issue. | Appropriate interpretation and discussion of the biological information ideas, concepts, relationships, theories and models and connections between them relevant to the selected bioethical issue. | Detailed interpretation and discussion of the biological information ideas, concepts, relationships, theories and models and connections between them relevant to the selected bioethical issue. | Insightful interpretation and discussion of the biological information ideas, concepts, relationships, theories and models and connections between them relevant to the selected bioethical issue. |
| Limited interpretation and evaluation of information relevant to the selected bioethical issue presented in the public domain through selected scientific and media texts.  | Some appropriate interpretation and evaluation of information relevant to the selected bioethical issue presented in the public domain through selected scientific and media texts. | Appropriate interpretation and evaluation of information relevant to the selected bioethical issue presented in the public domain through selected scientific and media texts. | Detailed interpretation and evaluation of information relevant to the selected bioethical issue presented in the public domain through selected scientific and media texts.  | Insightful interpretation and evaluation of information relevant to the selected bioethical issue presented in the public domain through selected scientific and media texts.  |
| Limited identification and use of relevant approaches to bioethics and/or ethical concepts in the analysis and evaluation of the selected bioethical issue. | Some identification and use of relevant approaches to bioethics and/or ethical concepts in the analysis of the selected bioethical issue. | Appropriate identification and use of relevant approaches to bioethics and/or ethical concepts in the analysis of the selected bioethical issue. | Detailed identification and use of relevant approaches to bioethics and/or ethical concepts in the analysis of the selected bioethical issue. | Insightful identification and use of relevant approaches to bioethics and/or ethical concepts in the analysis of the selected bioethical issue. |
| Limited use of relevant approaches to bioethics and/or ethical concepts in developing and justifying a response to the selected bioethical issue. | Some appropriate use of relevant approaches to bioethics and/or ethical concepts in developing and justifying a response to the selected bioethical issue. | Appropriate use of relevant approaches to bioethics and/or ethical concepts in developing and justifying a response to the selected bioethical issue. | Effective use of relevant approaches to bioethics and/or ethical concepts in developing and justifying a response to the selected bioethical issue. | Proficient use of relevant approaches to bioethics and/or ethical concepts in developing and justifying a response to the selected bioethical issue. |

KEY to marking scale based on the outcome contributing 40 marks

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| Very Low 1-8 | Low 9–16 | Medium 17–24 | High 25–32 | Very High 33–40 |