**Glen Innes High School**

**Preliminary Biology Assessment 2024**

|  | Task 1  ***First Hand Investigation***  Term 1, Week 8 | Task 2  ***Depth Study***  Term 2, Week 9 | Task 3  ***Yearly Exam***  Term 3 Week 9-10 |
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| **Outcomes** | BIO11-1, BIO11-2, BIO11-3, BIO11-4, BIO11-5, BIO11-6, BIO1-7 | BIO11-1, BIO11-2, BIO11-3, BIO11-5, BIO11-6, BIO1-7 | BIO11-8, BIO11-9, BIO11-10, BIO11-11 |
| **Cells as the Basis of Life** | 30 |  | 10 |
| **Organisation of Living Things** |  | 10 | 10 |
| **Biological Diversity** |  | 10 | 10 |
| **Ecosystem Dynamics** |  | 10 | 10 |
| **Weighting** | 30 | 30 | 40 |

##### **SKILLS**

##### A student:

* [develops and evaluates questions and hypotheses for scientific investigation BIO11/12-1](http://syllabus.nesa.nsw.edu.au/chemistry-stage6/outcomes/outcomes-content/2003/)
* designs and evaluates investigations in order to obtain primary and secondary data and information BIO11/12-2
* conducts investigations to collect valid and reliable primary and secondary data and information BIO11/12-3
* analyses and evaluates primary and secondary data and information BIO11/12-5
* selects and processes appropriate qualitative and quantitative data and information using a range of appropriate media BIO11/12-4
* solves scientific problems using primary and secondary data, critical thinking skills and scientific processes. BIO11/12-5
* [solves scientific problems using primary and secondary data, critical thinking skills and scientific processes BIO11/12-6](http://syllabus.nesa.nsw.edu.au/chemistry-stage6/outcomes/outcomes-content/2018/)
* communicates scientific understanding using suitable language and terminology for a specific audience or purpose BIO11/12-7

#### KNOWLEDGE AND UNDERSTANDING

##### A student:

* describes single cells as the basis for all life by analysing and explaining cells’ ultrastructure and biochemical processes BIO11-8
* explains the structure and function of multicellular organisms and describes how the coordinated activities of cells, tissues and organs contribute to macroscopic processes in organisms BIO11-9
* describes biological diversity by explaining the relationships between a range of organisms in terms of specialisation for selected habitats and evolution of species BIO11-10
* analyses ecosystem dynamics and the interrelationships of organisms within the ecosystem BIO11-11