Oklahoma School Testing Program

Oklahoma Modified Alternate Assessment Program
Biology I – Test Blueprint
School Years 2014-2015 and 2015-2016

The blueprint describes the content and structure of an assessment and defines the ideal number of test items by standard and objective of the Priority Academic Student Skills / Oklahoma Academic Standards (PASS/OAS).

Process/Inquiry Standards and Objectives	Ideal Number of Items	Ideal Perce1.05ntage of Items
P1.0 Observe and Measure	**6**	**12%**
1.1 Qualitative/Quantitative Observations and Changes	4	
1.2 Use Appropriate Tools and 1.3 Use Appropriate System International (SI) Units	2	
P2.0 Classify	**6**	**12% - 13%**
2.1 Use Observable Properties to Classify	2 - 4	
2.2 Identify Properties of a Classification System	2 - 4	
P3.0 Experimental Design	**13 - 16**	**27% - 32%**
3.1 Evaluate the Design of Investigations	3 - 4	
3.2 Identify Controlled Variables and Experimental Controls in an Experiment and 3.4 Identify a Testable Hypothesis in a Biology Investigation	3 - 4	
3.3 Use Mathematics to Show Relationships	3 - 4	
3.5 Identify Potential Hazards and Practice Safety Procedures in All Science Activities	3 - 4	
P4.0 Interpret and Communicate	**16 - 19**	**33% - 39%**
4.1 Select Predictions Based on Observed Patterns of Evidence	3 - 4	
4.3 Interpret Line, Bar, Trend, and Circle Graphs	3 - 4	
4.4 Accept or Reject a Hypothesis	3	
4.5 Make Logical Conclusions Based on Experimental Data	3 - 4	
4.8 Identify an Appropriate Graph or Chart	3 - 4	
a. Translate Quantitative Information Expressed in Words into Visual Form (e.g., a table, chart, equation)		
b. Translate Information Expressed Visually or Mathematically (e.g., a table, chart, equation) into Words		
P5.0 Model	**6**	**13%**
5.1 Interpret a Model Which Explains a Given Set of Observations	3	
5.2 Select Predictions Based on Models Using Mathematics When Appropriate	3	
Total Test	**46 - 49**	**100%**

(Please note this blueprint does not include items that may be included for field testing.)

Oklahoma School Testing Program

Oklahoma Modified Alternate Assessment Program
Biology I – Test Blueprint
School Years 2014-2015 and 2015-2016

Content Standards and Objectives	Ideal Number of Items	Ideal Percentage of Items
C1.0 The Cell	**9 - 12**	**21% - 27%**
1.1 Cell Structures and Functions	3 - 5	
1.2 Differentiation of Cells	2 - 4	
1.3 Specialized Cells	2 - 4	
C2.0 The Molecular Basis of Heredity	**9 - 12**	**21% - 27%**
2.1 DNA Structure and Function in Heredity	3 - 6	
2.2 Sorting and Recombination of Genes	4 - 7	
C3.0 Biological Diversity	**9 - 12**	**21% - 27%**
3.1 Variation Among Organisms	2 - 4	
3.2 Natural Selection and Biological Adaptations	3 - 5	
3.3 Behavior Patterns Can Be Used to Ensure Reproductive Success	2 - 4	
C4.0 The Interdependence of Organisms	**6 - 8**	**14% - 18%**
4.2 Organisms Both Cooperate and Compete	3 - 5	
4.3 Population Dynamics	3 - 5	
C5.0 Matter/Energy/Organization in Living Systems	**10**	**21%**
5.1 Complexity and Organization Used for Survival	3 - 4	
5.2 Matter and Energy Flow in Living and Nonliving Systems	3 - 4	
5.3 Earth Cycles Including Abiotic and Biotic Factors	3 - 4	
Total Test	**43 - 46[1]**	**100%**

(Please note this blueprint does not include items that may be included for field testing.)

[1] Each test item aligns to both a Process Standard/Objective and a Content Standard/Objective, except for Safety Items which only align to P3.5.

- A minimum of 6 items is required to report a standard, and a minimum of 4 items is required to report results for an objective.
- The Oklahoma Modified Alternate Assessment Program (OMAAP) will only be available for repeat testers during the 2014-2015 and 2015-2016 School Years.