

Oklahoma School Testing Program
Oklahoma Core Curriculum Tests
Biology I
Test Blueprint
School Year 2013-2014

The Test Blueprint reflects the degree to which each standard and objective is represented on the test. The overall distribution of operational items in a test form is intended to look as follows:

Process/Inquiry Standards and Objectives	Ideal Number of Items	Ideal Percentage of Test
P1.0 Observe and Measure	6	10%
1.1 Qualitative/quantitative observations and changes	4	
1.2 Use appropriate tools & 1.3 Use appropriate System International (SI) units	2	
P2.0 Classify	7-8	12%-13%
2.1 Use observable properties to classify	4	
2.2 Identify properties of a classification system	3-4	
P3.0 Experimental Design	16-19	27%-32%
3.1 Evaluate the design of investigations	4-5	
3.2 Identify controlled variables & experimental controls in an experiment & 3.4 Identify a testable hypothesis in a biology investigation	5-6	
3.3 Use mathematics to show relationships	4-6	
3.5 Identify potential hazards and practice safety procedures in all science activities	3	
P4.0 Interpret and Communicate	20-24	33%-40%
4.1 Select predictions based on observed patterns of evidence	4-5	
4.3 Interpret line, bar, trend, and circle graphs	4-5	
4.4 Accept or reject a hypothesis	4-5	
4.5 Make logical conclusions based on experimental data	4-5	
4.8 Identify an appropriate graph or chart	4	
P5.0 Model	8	13%
5.1 Interpret a model which explains a given set of observations	4	
5.2 Select predictions based on models, using mathematics when appropriate	4	
Total Test	60	100%

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Content Standards and Objectives	Ideal Number of Items	Ideal Percentage of Test
C1.0 The Cell	12–15	21%–27%
1.1 Cell structures and functions	4–6	
1.2 Differentiation of cells	4–6	
1.3 Specialized cells	4	
C2.0 The Molecular Basis of Heredity	12-15	21%–27%
2.1 DNA structure and function in heredity	6-8	
2.2 Sorting and recombination of genes	6-7	
C3.0 Biological Diversity	12–15	21%–27%
3.1 Variation among organisms	4–6	
3.2 Natural selection and biological adaptations	4–6	
3.3 Behavior patterns can be used to ensure reproductive success	4	
C4.0 The Interdependence of Organisms	8–10	14%–18%
4.1 Organisms both cooperate and compete	4–6	
4.2 Population dynamics	4–6	
C5.0 Matter/Energy/Organization in Living Systems	12–15	21%
5.1 Complexity and organization used for survival	4	
5.2 Matter and energy flow in living and nonliving systems	4	
5.3 Earth cycles including abiotic and biotic factors	4	
Total Test	57¹	100%

¹Three out of the 60 total items assess the “Safety” process standard for which there is no corresponding content standard.

- Percentages are approximations and may result in a sum other than 100 due to rounding.
- A minimum of 4 items is required to report results for an objective, and a minimum of 6 items is required to report a standard. While the actual number of items on the test may not match the blueprint exactly, each future test will move toward closer alignment with the ideal blueprint.
- The Oklahoma Academic Standards for Biology I correspond to the *PASS* Biology I standards.