

**Oklahoma School Testing Program  
Oklahoma Core Curriculum Tests  
ACE Biology I  
Test Blueprint School Year 2012-1203**

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:

**Oklahoma School Testing Program**

Process/Inquiry Standards and Objectives	Ideal Number of Items	Ideal Percentage of Test
<b>Observe and Measure (P1.0)</b>	<b>6</b>	<b>10%</b>
Qualitative/quantitative observations and changes (P1.1)	4	
Use appropriate System International (SI) units and tools (P1.2 & P1.3)	2	
<b>Classify (P2.0)</b>	<b>7-8</b>	<b>12%-13%</b>
Use observable properties to classify (P2.1)	4	
Identify properties of a classification system (P2.2)	3-4	
<b>Experiment (P3.0)</b>	<b>16-19</b>	<b>27%-32%</b>
Evaluate the design of investigations (P3.1)	4-5	
Identify a testable hypothesis, controlled variables, and experimental controls in an experiment (P3.2 & P3.4)	5-6	
Use mathematics to show relationships (P3.3)	4-6	
Identify potential hazards and practice safety procedures in all science activities (P3.5)	3	
<b>Interpret and Communicate (P4.0)</b>	<b>20-24</b>	<b>33%-40%</b>
Select predictions based on observed patterns of evidence (P4.1)	4-5	
Interpret line, bar, trend, and circle graphs (P4.3)	4-5	
Accept or reject a hypothesis (P4.4)	4-5	
Make logical conclusions based on experimental data (P4.5)	4-5	
Identify an appropriate graph or chart (P4.8)	4	
<b>Model (P5.0)</b>	<b>8</b>	<b>13%</b>
Interpret a model which explains a given set of observations (P5.1)	4	
Select predictions based on models, using mathematics when appropriate (P5.2)	4	
<b>Total Test</b>	<b>60</b>	<b>100%</b>

**Oklahoma Core Curriculum Tests  
ACE Biology I (Continued)  
Test Blueprint for School Year 2012- 2013**

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:

Content Standards and Objectives	Ideal Number of Items	Ideal Percentage of Test
<b>The Cell (1.0)</b>	<b>12–15</b>	<b>21%–27%</b>
Cell structures and functions (1.1)	4–6	
Differentiation of cells (1.2)	4–6	
Specialized cells (1.3)	4	
<b>The Molecular Basis of Heredity (2.0)</b>	<b>12-15</b>	<b>21%–27%</b>
DNA structure and function in heredity (2.1)	6-8	
Sorting and recombination of genes (2.2)	6-7	
<b>Biological Diversity (3.0)</b>	<b>12–15</b>	<b>21%–27%</b>
Variation among organisms (3.1)	4–6	
Natural selection and biological adaptations (3.2)	4–6	
Behavior patterns can be used to ensure reproductive success (3.3)	4	
<b>The Interdependence of Organisms (4.0)</b>	<b>8–10</b>	<b>14%–18%</b>
Organisms both cooperate and compete (4.1)	4–6	
Population dynamics (4.2)	4–6	
<b>Matter/Energy/Organization in Living Systems (5.0)</b>	<b>12–15</b>	<b>21%</b>
Complexity and organization used for survival (5.1)	4	
Matter and energy flow in living and nonliving systems (5.2)	4	
Earth cycles including abiotic and biotic factors (5.3)	4	
<b>Total Test</b>	<b>57<sup>1</sup></b>	<b>100%</b>

<sup>1</sup> Three out of the 60 total items assess the "Safety" process standard for which there is no corresponding content standard.

- A minimum of four items is required to report results for an objective, and six items are required to report for a standard.
- Percents are approximations and may result in a sum other than 100 due to rounding.
- Biology I standards correspond to the *PASS* Biology I standard revision 2011.