



National Evaluation Series™

Test Framework Worksheet

Biology

Test Code
305

Notes:

| | | Multiple-Choice Questions (approx.) | Test Proportion (approx.) | | | | |
|------------|------|--|---------------------------|-----------|------------|--|--|
| | | CONTENT DOMAIN I—NATURE OF SCIENCE | | 30 | 20% | | |
| Competency | 0001 | Understand principles and procedures of scientific inquiry. | | | | | |
| | 0002 | Understand the history and nature of science. | | | | | |
| | 0003 | Understand the relationships between biology, engineering, technology, mathematics, and society. | | | | | |
| | | CONTENT DOMAIN II—BIOCHEMISTRY AND CELL BIOLOGY | | 20 | 13% | | |
| Competency | 0004 | Understand the chemistry of living systems. | | | | | |
| | 0005 | Understand cell structure, function, and bioenergetics. | | | | | |
| | | CONTENT DOMAIN III—GENETICS AND EVOLUTION | | 40 | 27% | | |
| Competency | 0006 | Understand molecular genetics. | | | | | |
| | 0007 | Understand patterns and processes of inheritance. | | | | | |
| | 0008 | Understand the mechanisms of biological evolution. | | | | | |
| | 0009 | Understand the scientific explanations and evidence for the history of life on Earth. | | | | | |
| | | CONTENT DOMAIN IV—BIOLOGICAL UNITY AND DIVERSITY | | 30 | 20% | | |
| Competency | 0010 | Understand the structures and functions of organisms and their life cycles. | | | | | |
| | 0011 | Understand how organisms obtain, store, and use energy and matter to maintain homeostasis. | | | | | |
| | 0012 | Understand the anatomy and physiology of human organ systems. | | | | | |
| | | CONTENT DOMAIN V—ECOLOGY AND ENVIRONMENT | | 30 | 20% | | |
| Competency | 0013 | Understand populations and communities. | | | | | |
| | 0014 | Understand ecosystems and biomes. | | | | | |
| | 0015 | Understand the effects of human activities on the biosphere. | | | | | |

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