

Biology: Current Blueprints

Content Strand	Point Range	Range Of Emphasis
Characteristics and Interactions of Living Organisms	20-24	36-44%
Changes in Ecosystems and Interactions of Organisms with their Environments	12-14	22-25%
Scientific Inquiry	20	36%
Total	55	100%



Biology Blueprint

PROPOSED DRAFT Blueprint for Future MO Assessments as of July, 2016

Biology Strands	Concepts	Performance Expectations	Point Range	Range of Emphasis
From Molecules to Organisms: Structure and Processes	A. Structure and Process	8	16-20	30-35%
	B. Growth and Development of Organisms			
	C. Organization for Matter and Energy Flow in Organisms			
Ecosystems: Interactions, Energy, and Dynamics	A. Interdependent Relationships in Ecosystems.	6	11-14	20-25%
	B. Cycles of Matter and Energy Transfer in Ecosystems			
	C. Ecosystem Dynamics, Functioning, and Resilience			
Heredity: Inheritance and Variation of Traits	A. Inheritance of Traits	5	8-11	15-20%
	B. Variation of Traits			
Biological Evolution: Unity and Diversity	A. Evidence of Common Ancestry and Diversity	7	13-17	25-30%
	B. Natural Selection			
	C. Adaptation			
	D. Biodiversity of Humans			
Totals:		26	55	100%

Physical Science: Current Blueprints

Content Strand	Point Range	Range Of Emphasis
Properties and Principles of Matter and Energy	25-30	55-66%
Properties and Principles of Force and Motion	15-20	33-44%
Total	45	100%



Physical Science Blueprint

PROPOSED DRAFT Blueprint for Future MO Assessments as of July, 2016

Physical Science Strands	Concepts	Performance Expectations	Point Range	Range of Emphasis
Matter and Its Interactions	A. Structure and Properties of Matter	9	18-22	36-44%
	B. Chemical Reactions			
	C. Nuclear Processes			
Motion and Stability: Forces and Interactions	A. Forces and Motion	5	8-12	16-24
	B. Types of Interaction			
Energy	A. Definitions of Energy	5	8-12	16-24
	B. Conservation of Energy and Energy Transfer			
	C. Relationship Between Energy and Forces			
Waves and Their Applications in Technologies for Information Transfer	A. Wave Properties	4	4-8	8-16
	B. Electromagnetic Radiation			
Total		23	50	100

This blueprint is based roughly on the percentage allocations for 2005 extrapolated to the 2016 CLEs.

This blueprint should be vetted against what is actually taught in the classroom and what should only be assessed in the classroom.

The weighting of points should be compared to the weighting of the importance of the material as perceived by the State Department of Education and/or a representative set of teachers from across the state.