Missouri End-of-Course Blueprints

A test blueprint is a map and or a table of specifications for an assessment program to identify the structure of the assessment which ensures that the Missouri Learning Standards Expectations are covered by the assessment program over a specified period of time. The blueprint links the assessment to the content areas acting as a tool to align objectives to the appropriate weightage and questions across the strands.

Blueprints provide the essential planning materials for the assessment development process. The test blueprints are used to guide and target specific item development and writing as well as the form assembly. The blueprint along with item specifications, performance–level descriptors and the practice and processes documents provide strong content validity and reliability for the assessment system.

Assessments may contain selected response (SR) items, constructed response (CR) items, writing tasks (WT) and/or technology enhanced (TE) items (e.g. drag and drop, drop-down menu, matching, select answers, hot spot, etc.)

Mathematics

Groupings

- **Category -** Represent a group / groups of similar content standards / expectations within each grade and content area
- **Code -** Represents the standard code for the Missouri learning Standard
- **Domain -** Represents the core principles of what the students have been taught and have learned
- **Point Range -** Identifies the points possible for the reporting strand
- **Range of Emphasis -** Identifies the percentage of the assessment in the reporting strand

Blueprint for ALGEBRA I

Category	Code	Domain	Point Range	Range Of Emphasis
Algebra	SSE	Seeing Structure In Expressions	18-22	37-43%
	APR	Arithmetic With Polynomials And Rational Expressions		
	CED	Creating Equations and Inequalities		
	REI	Reasoning With Equations And Inequalities		
Functions	IF	Interpreting Functions	18-22	37-43%
	BF	Building Functions		
	LQE	Linear, Quadratic And Exponential Models		
Number & Data	NQ	Number and Quantity	8-12	17-23%
	DS	Data and Statistics		
Performance Event: Each year the performance event may align to any specific conceptual category or to a group of them. The performance event is worth 10 points.				
		Total	50	100%

Blueprint for ALGEBRA II

Category	Code	Domain	Point Range	Range Of Emphasis
Algebra	APR	Arithmetic With Polynomials And Rational Expressions	25-28	50-56%
	REI	Reasoning With Equations And Inequalities		
	SSE	Logarithms and Exponential Relationships		
Functions	IF	Interpreting Functions	11-14	22-28%
	BF	Building Functions		
	FM	Modeling with Functions, or Functions and Modeling		
Number & Data	NQ	Number and Quantity	10-12	20-24%
	DS	Data and Statistics		
Performance Event: Each year the performance event may align to any specific conceptual category or to a group of them. The performance event is worth 10 points.				
		Total	50	100%

Mathematics

Blueprint for GEOMETRY

Category	Code	Domain	Point Range	Range Of Emphasis
Congruence/ Similarity, Coordinate Geometry, & Circles	CO	Congruence	32–35	64–70%
	SRT	Similarity, Right Triangles And Trigonometry		
	C	Circles		
	GPE	Expressing Geometric Properties With Equations		
Geometric Measurement & Modeling	GMD	Geometric Measurement And Dimension	6–10	12–20%
	MG	Modeling with Geometry		
Statistics & Probability	CP	Conditional Probability And The Rules Of Probability	6–10	12–20%
Performance Event: Each year the performance event may align to any specific conceptual category or to a group of them. The performance event is worth 10 points.				
Total			**50**	**100%**

English Language Arts

Groupings

- **Reporting Category -** Represent a group / groups of similar content standards / expectations within each grade and content area
- **Strand/Domain -** Larger groups of content standards/expectations that are closely related
- **Theme/Big Idea -** Represents the core principles of what the students have been taught and have learned
- **Point Range -** Identifies the points possible for the reporting category
- **Range of Emphasis -** Identifies the percentage of the assessment to the reporting category

Blueprint for ENGLISH I and ENGLISH II

Reporting Category	Strand/Domain	Theme/Big Idea	Point Range	Range of Emphasis
Reading	Reading Literary Texts	Comprehend and Interpret Texts. Analyze Craft and Structure Synthesize Ideas from Texts	15	30%
Reading	Reading Informational Texts	Comprehend and Interpret Texts. Analyze Craft and Structure Synthesize Ideas from Texts	15	30%
Writing	Writing	Development (Process/Production) (4 points for Development and Elaboration) (4 points for Organization and Flow) Research Revise and Edit (2 points will be associated with Conventions)	20	40%
Total			50	100%

Science

Groupings

- **Reporting Category -** Represent a group / groups of similar content standards / expectations within each grade and content area
- **Concept -** Represents the core principles of what the students have been taught and have learned
- **Point Range -** Identifies the points possible for the reporting category
- **Range of Emphasis -** Identifies the percentage of the assessment to the reporting category

Blueprint for BIOLOGY

Reporting Category	Concept	Point Range	Range Of Emphasis
From Molecules to Organisms: Structure and Process	Structure and Function	11-15	22-30%
	Growth and Development of Organisms		
	Organization for Matter and Energy Flow in Organisms		
Ecosystems: Interactions, Energy, and Dynamics	Interdependent Relationships in Ecosystems	8-12	16-24%
	Cycles of Matter and Energy Transfer in Ecosystems		
	Ecosystem Dynamics, Functioning and Resilience		
Heredity: Inheritance and Variation of Traits	Inheritance of Traits	11-15	22-30%
	Variation of Traits		
Biological Evolution: Unity and Diversity	Evidence of Common Ancestry and Diversity	11-15	22-30%
	Natural Selection		
	Adaptation		
Earth and Human Activity	Biogeology	3-6	6-12%
	Natural Resources		
	Human Impacts on Earth's Systems		
	Global Climate Change		
Total		**50**	**100%**

Science

Blueprint for PHYSICAL SCIENCE

Reporting Category	Concept	Point Range	Range Of Emphasis
Matter and Its Interactions	Structure and Properties of Matter	12-16	24-32%
	Chemical Reactions		
	Nuclear Process		
Motion and Stability: Forces and Interactions	Forces and Motion	12-16	24-32%
	Types of Interactions		
Energy	Definitions of Energy	12-16	24-32%
	Conservation of Energy and Energy Transfer		
	Relationships Between Energy and Forces		
	Wave Properties		
Earth and the Universe	The Universe and Its Stars	6-9	12-18%
	Earth and the Solar System		
	Earth Materials and Systems		
Total		**50**	**100%**

Social Studies

Groupings

- **Reporting Categories -** Represent a group / groups of similar content standards / expectations within each grade and content area
- **Point Range -** Identifies the points possible for the reporting category
- **Range of Emphasis -** Identifies the percentage of the assessment to the reporting category

Blueprint for AMERICAN HISTORY

Reporting Categories	Point Range	Range Of Emphasis
Government	7-9	18%-23%
History	14-18	35%-45%
Economics	7-9	18%-23%
Geography	7-9	18%-23%
Total	**40**	**100%**

Blueprint for GOVERNMENT

Reporting Categories	Point Range	Range Of Emphasis
Principles of Constitutional Democracy	18-22	45%-55%
Principles and Processes of Governance Systems	18-22	45%-55%
Total	**40**	**100%**