

MISSOURI EDUCATOR GATEWAY ASSESSMENTS

Field 013 Middle School Education: Science

Content Alignment Table

The Content Alignment Study below provides information about the alignment of knowledge and skills described in the competencies that make up the test framework for this licensure test with the state and national standards designated by the Department of Elementary and Secondary Education for this field. The table indicates those portions of the relevant state and/or national standards that are addressed -- in whole or in part -- by each competency.

Test Competency	Missouri Department of Elementary and Secondary Education. (Spring 2016). K-5 Science Missouri Learning Standards: Grade-Level Expectations. Grade 5	Missouri Department of Elementary and Secondary Education. (Spring 2016). 6-12 Science Grade-level Expectations. Grades 6-12
Science and Engineering Practices		
0001 Understand the practices of scientific inquiry and engineering design.	K-5.ETS1.A.1, K-5.ETS1.B.1, K-5.ETS1.C.1	6-8.PS1.B.2, 6-8.PS3.A.3, 6-8.PS3.A.4, 6-8.LS2.C.2, 6-8.ESS3.B.1, 6-8.ESS3.C.2, 6-8.ETS1.B.1, 6-8.ETS1.B.2, 6-8.ETS1.B.3,
0002 Understand crosscutting concepts in the sciences and engineering.		6-8.LS1.A.4, 6-8.ESS1.B.1
0003 Understand the relationships between science, technology, and human activity in a global context.	5.ESS3.C.1	6-8.PS1.A.3, 6-8.LS4.B.2, 6-8.ETS1.A.1
Physical Science		
0004 Understand the properties of matter.	5.PS1.A.1, 5.PS1.B.1	6-8.PS1.A.1
0005 Understand physical and chemical changes of matter.	5.PS1.A.2, 5.PS1.B.2	6-8.PS1.A.2, 6-8.PS1.A.4, 6-8.PS1.B.1, 6-8.PS3.B.1
0006 Understand the characteristics of energy and energy transformations.	5.PS3.D.1	6-8.PS3.A.2, 6-8.PS2.B.1, 6-8.PS2.B.3, 6-8.PS3.A.3, 6-8.PS3.B.1

MISSOURI EDUCATOR GATEWAY ASSESSMENTS

Field 013 Middle School Education: Science

Content Alignment Table

Test Competency	Missouri Department of Elementary and Secondary Education. (Spring 2016). K-5 Science Missouri Learning Standards: Grade-Level Expectations. Grade 5	Missouri Department of Elementary and Secondary Education. (Spring 2016). 6-12 Science Grade-level Expectations. Grades 6-12
0007 Understand the properties and principles of force and motion.	5.PS2.B.1	6-8.PS2.A.1, 6-8.PS2.A.2, 6-8.PS2.B.2
0008 Understand the characteristics and properties of mechanical and electromagnetic waves.	5.PS4.A.1	6-8.PS4.A.1, 6-8.PS4.A.2
Biology		
0009 Understand the characteristics of living organisms.	5.LS1.A.1, 5.LS1.C.1	6-8.LS1.A.1, 6-8.LS1.A.2, 6-8.LS1.A.3, 6-8.LS1.A.4, 6-8.LS1.B.1, 6-8.LS1.B.2, 6-8.LS1.C.1
0010 Understand reproduction, heredity, and biological classification.		6-8.LS4.B.1
0011 Understand the interactions of organisms with their environments.	5.LS2.B.1	6-8.LS2.A.1, 6-8.LS2.A.2, 6-8.LS2.B.1, 6-8.LS2.C.1, 6-8.LS2.C.2, 6-8.LS4.C.1
Earth and Space Science		
0012 Understand Earth's history and the processes that shape and change its geosphere.		6-8.PS1.A.3, 6-8.LS4.A.1, 6-8.ESS1.C.1, 6-8.ESS2.A.1, 6-8.ESS2.A.2, 6-8.ESS2.B.1, 6-8.ESS3.A.1, 6-8.ESS3.C.1, 6-8.ESS3.C.2

MISSOURI EDUCATOR GATEWAY ASSESSMENTS

Field 013 Middle School Education: Science

Content Alignment Table

Test Competency	Missouri Department of Elementary and Secondary Education. (Spring 2016). K-5 Science Missouri Learning Standards: Grade-Level Expectations. Grade 5	Missouri Department of Elementary and Secondary Education. (Spring 2016). 6-12 Science Grade-level Expectations. Grades 6-12
0013 Understand Earth's hydrosphere, atmosphere, weather, and climate.	5.ESS2.A.1, 5.ESS2.C.1	6-8.ESS2.C.1, 6-8.ESS2.C.2, 6-8.ESS2.C.3, 6-8.ESS3.B.1, 6-8.ESS3.D.1
0014 Understand the composition and structure of the universe.	5.ESS1.B.1-2	6-8.ESS1.A.1, 6-8.ESS1.A.2, 6-8.ESS1.A.3