

Field 242 – Environmental Science

Alignment of Test Framework Objectives with State and National Standards

Illinois Licensure Testing System Framework Objectives for Environmental Science	State Board of Education Rules-Title 23 of the Illinois Administrative Code– 27.140	Next Generation Science Standards
Subarea I: Science Process Skills		
0001 Understand practices of science and engineering.	a, b, i, o, p, q	MS-ETS1-1, MS-ETS1-2, MS-ETS1-3, MS-ETS1-4, SEP1–8
0002 Understand crosscutting concepts and their applications across science and engineering disciplines.	j, k, o, p, q	CCC1–7
0003 Understand the process of reading, and apply knowledge of strategies for promoting students' reading development in the science classroom.	s	
Subarea II: Disciplinary Core Ideas		
0004 Understand the disciplinary core ideas of chemistry.	b, e, o, p, q	MS-PS1-1, MS-PS1-2, MS-PS1-4, MS-PS1-5, MS-PS1-6, MS-PS3-4, HS-PS1-1, HS-PS1-2, HS-PS1-4, HS-PS1-5, HS-PS1-6, HS-PS1-7, HS-PS1-8, HS-PS2-6, SEP1, 2, 4, 5, 6, 8, CCC1–7
0005 Understand the disciplinary core ideas of physics.	b, e, f, o, p, q	MS-PS2-1, MS-PS2-2, MS-PS2-3, MS-PS2-4, MS-PS2-5, MS-PS3-1, MS-PS3-2, MS-PS3-3, MS-PS3-4, MS-PS3-5, MS-PS-4-1, MS-PS-4-2, MS-PS-4-3, HS-PS2-1, HS-PS2-2, HS-PS2-3, HS-PS2-4, HS-PS2-5, HS-PS3-1, HS-PS3-2, HS-PS3-3, HS-PS3-4, HS-PS4-1, HS-PS4-2, HS-PS4-3, SEP1, 2, 4, 5, 6, 8, CCC1–8

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0006 Understand the disciplinary core ideas of biology.	b, c, d, o, p, q	MS-LS1-1, MS-LS1-2, MS-LS1-3, MS-LS1-4, MS-LS1-5, MS-LS1-6, MS-LS1-7, MS-LS3-1, MS-LS3-2, MS-LS4-1, MSLS4-2, MS-LS4-4, MS-LS4-6, HS-LS1-1, HS-LS1-2, HS-LS1-3, HS-LS1-4, HS-LS1-5, HS-LS1-6, HS-LS1-7, HS-LS2-3, HS-LS3-1, HS-LS3-2, HS-LS3-3, HS-LS4-1, HSLS4-2, HS-LS4-3, HS-LS4-4, HS-LS4-5, SEP1, 2, 4, 5, 6, 8, CCC1–8
0007 Understand the disciplinary core ideas of Earth and space science.	b, g, h, o, p, q	NGSS: MS-ESS1-1, MS-ESS1-2, MS-ESS1-4, MS-ESS2-1, MS-ESS2-2, MS-ESS2-3, MS-ESS2-4, MESS2-5, MS-ESS2-6, HS-ESS1-1, HS-ESS1-2, HS-ESS1-3, HS-ESS1-4, HS-ESS1-6, HS-ESS2-3, HS-ESS2-5, SEP1, 2, 4, 5, 6, 8, CCC1–8
0008 Understand the disciplinary core ideas of environmental science.	b, d, g, o, p, q	MS-LS2-1, MSLS2-2, MS-LS2-3, MS-LS2-4, MS-LS2-5, MS-ESS3-1, MS-ESS3-2, MS-ESS3-3, MESS3-4, HS-LS2-1, HS-LS2-2, HS-LS2-3, HS-LS2-5, HS-LS2-7, HS-LS4-6, HSESS2-2, HS-ESS2-6, HS-ESS2-7, HS-ESS3-1, HS-ESS3-4, HS-ESS3-6, SEP1, 2, 4, 5, 6, 8, CCC1–8
Subarea III: The Biosphere		
0009 Understand ecological systems.	a, b, i, o, p, q	MS-LS1-4, MS-LS2-1, MS-LS2-2, MSLS2-4, MS-LS3-2, MS-LS4-4, MS-LS4-6, HS-LS2-1, HS-LS2-2, HS-LS2-6, HS-LS2-8, HS-LS3-3, HS-LS4-2–5, MS-ETS1-1, MS-ETS1-2, MS-ETS1-3, MS-ETS1-4, SEP1–8

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0010 Understand the cycling of matter and the flow of energy.	j, k, o, p, q	MS-LS1-6, MS-LS1-7, MS-LS2-1, MS-LS2-3, MS-ESS2-1, MS-ESS2-4, HS-PS3-1, HS-LS1-5-7, HS-LS2-2-5, HS-ESS2-4-6, CCC1-7
011 Understand the interactions of the biosphere and geosphere.	s	MS-LS4-1, MS-ESS2-2, MS-ESS2-5, MS-ESS2-6, MS-ESS3-1, MS-ESS3-2, HS-LS2-2, HS-LS2-5, HS-LS4-5, HS-ESS2-2, HS-ESS2-4, HS-ESS2-5, HS-ESS2-7, HS-ESS3-6,
Subarea IV: Human-Environment Interactions		
0012 Understand the effects of human activities on the biosphere and strategies for mitigating those effects.	b, e, o, p, a, s	MS-LS2-5, MS-LS4-5, MS-ESS3-3-5, HS-LS2-2, HS-LS2-7, HS-LS4-6, HS-ESS3-4-6, MS-PS1-1, MS-PS1-2, MS-PS1-4, MS-PS1-5, MS-PS1-6, MS-PS3-4, HS-PS1-1, HS-PS1-2, HSPS1-4, HS-PS1-5, HS-PS1-6, HS-PS1-7, HS-PS1-8, HS-PS2-6, SEP1, 2, 4, 5, 6, 8, CCC1-7
0013 Understand social, economic, political, legal, and regulatory factors that influence the environment.	b, e, f, o, p, q	HS-LS2-2, MS-PS2-1, MS-PS2-2, MSPS2-3, MS-PS2-4, MS-PS2-5, MS-PS3-1, MS-PS3-2, MS-PS3-3, MS-PS3-4, MSPS3-5, MS-PS-4-1, MS-PS-4-2, MS-PS-4-3, HS-PS2-1, HS-PS2-2, HS-PS2-3, HSPS2-4, HS-PS2-5, HS-PS3-1, HS-PS3-2, HS-PS3-3, HS-PS3-4, HS-PS4-1, HS-PS4-2, HS-PS4-3, SEP1, 2, 4, 5, 6, 8, CCC1-8

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