

## Correlation to Show Compatibility of *Integrated iScience – Course 1* with the Next Generation Science Standards Performance Expectations and Disciplinary Core Ideas

*iScience* provides optimal flexibility for the initial implementation of the Next Generation Science Standards (NGSS) into your curriculum. This correlation to the Performance Expectations and Disciplinary Core Ideas (DCIs) will help guide and inform your curriculum decisions as you transition the NGSS into your science instruction.

Lesson/Feature Title	Performance Expectations & Disciplinary Core Ideas	Pages
<b>Nature of Science • Methods of Science</b>		
1. Understanding Science		NOS4-NOS11
2. Measurement and Scientific Tools		NOS12-NOS19
3. Case Study: The Iceman’s Last Journey		NOS20-NOS29
<b>Chapter 1 • Mapping Earth</b>		
1. Maps		8-17
2. Technology and Mapmaking		18-31
<b>Chapter 2 • Earth in Space</b>		
1. The Sun-Earth-Moon System	MS-ESS1-1, ESS1.A (MS-ESS1-1), ESS1.B (MS-ESS1-1)	40-48
2. The Solar System	MS-ESS1-2, MS-ESS1-3, ESS1.B (MS-ESS1-2)	50-57
3. Stars, Galaxies, and the Universe	MS-ESS1-2, ESS1.A (MS-ESS1-2)	58-65
<b>Chapter 3 • Our Planet—Earth</b>		
1. Earth Systems		74-84
2. Interactions of Earth Systems	MS-ESS2-4, MS-ESS2-1, ESS2.C (MS-ESS2-4), ESS2.A (MS-ESS2-1), ESS2.D (MS-ESS2-5), ESS2.D (MS-ESS2-6)	86-97
<b>Chapter 4 • Earth’s Dynamic Surface</b>		
1. Earth’s Moving Surface	MS-ESS2-2, ESS2.A (MS-ESS2-2)	107-112
2. Shaping Earth’s Surface	MS-ESS2-2, MS-ESS2-3, MS-ESS3-2, ESS1.C (secondary to MS-ESS2-3), ESS2.A (MS-ESS2-2), ESS3.B (MS-ESS3-2)	114-123
3. Changing Earth’s Surface	MS-ESS2-2, ESS2.A (MS-ESS2-2), ESS2.C (MS-ESS2-2)	124-133

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<b>Chapter 5 • Natural Resources</b>		
1. Energy Resources	MS-ESS3-1, MS-ESS3-3, MS-ESS3-4, ESS3.A (MS-ESS3-1), ESS3.C (MS-ESS3-3), ESS3.C (MS-ESS3-3)(MS-ESS3-4)	142-151
2. Renewable Energy Resources	MS-ESS3-3, ESS3.C (MS-ESS3-3)(MS-ESS3-4)	152-159
3. Land Resources	MS-ESS3-1, MS-ESS3-3, ESS3.C (MS-ESS3-3)	160-166
4. Air and Water Resources	MS-ESS3-3, ESS3.A (MS-ESS3-1)	168-175
<b>Chapter 6 • Life's Classification and Structure</b>		
1. Classifying Living Things	LS1.A (MS-LS1-1)	188-196
2. Cells	MS-LS1-1, MS-LS1-2, LS1.A (MS-LS1-1), LS1.A (MS-LS1-2)	198-207
<b>Chapter 7 • Inheritance and Adaptations</b>		
1. Inheritance and Traits	MS-LS3-2, MS-LS3-1, MS-LS1-5, LS1.B (secondary to MS-LS3-2), LS1.B (MS-LS1-5), LS3.A (MS-LS3-1), LS3.A (MS-LS3-2), LS3.B (MS-LS3-2), LS3.B (MS-LS3-1)	216-223
2. Adaptations in Species	MS-LS4-4, MS-LS4-6, MS-LS4-5, LS4.B (MS-LS4-4), LS4.B (MS-LS4-5), LS4.C (MS-LS4-6)	225-233
<b>Chapter 8 • Introduction to Plants</b>		
1. Plant Diversity	MS-LS1-3, LS1.A (MS-LS1-3)	242-250
2. Plant Reproduction	MS-LS3-2, MS-LS1-4, LS1.B (secondary to MS-LS3-2), LS1.B (MS-LS1-4)	252-259
3. Plant Processes	MS-LS1-5, MS-LS1-6, LS1.B (MS-LS1-5), LS1.C (MS-LS1-6)	260-269

Lesson/Feature Title	Performance Expectations & Disciplinary Core Ideas	Pages
<b>Chapter 9 • Introduction to Animals</b>		
1. What are animals?	MS-LS1-3, LS1.A (MS-LS1-3), LS4.C (MS-LS4-6)	278-285
2. Invertebrates	MS-LS1-3, LS1.A (MS-LS1-3)	286-293
3. Chordates	MS-LS1-3, LS1.A (MS-LS1-3), LS4.C (MS-LS4-6)	295-305
<b>Chapter 10 • Interactions of Life</b>		
1. Ecosystems	MS-LS2-1, MS-LS2-4, LS2.A (MS-LS2-1), LS2.C (MS-LS2-4)	316-323
2. Relationships Within Ecosystems	MS-LS2-1, MS-LS2-2, LS2.A (MS-LS2-1), LS2.A (MS-LS2-2)	324-330
3. Matter and Energy in Ecosystems	MS-LS1-6, MS-LS2-3, LS1.C (MS-LS1-6), LS2.B (MS-LS2-3), PS3.D (secondary to MS-LS1-6)	332-339
<b>Chapter 11 • Matter and Atoms</b>		
1. Substances and Mixtures	PS1.A (MS-PS1-1)	352-364
2. The Structure of Atoms	PS1.A (MS-PS1-1)	366-375
<b>Chapter 12 • Matter: Properties and Changes</b>		
1. Matter and Its Properties	PS1.A (MS-PS1-4)	384-395
2. Matter and Its Changes	MS-PS1-2, MS-PS1-5, PS1.A (MS-PS1-1), PS1.B (MS-PS1-2), PS1.B (MS-PS1-5)	396-407

Lesson/Feature Title	Performance Expectations & Disciplinary Core Ideas	Pages
<b>Chapter 13 • Energy and Energy Transformations</b>		
1. Forms of Energy	MS-PS3-1, MS-PS3-2, PS3.A (MS-PS3-1), PS3.A (MS-PS3-2), PS3.C (MS-PS3-2)	420-427
2. Energy Transformations	MS-PS3-2, MS-PS3-5, PS3.A (MS-PS3-2), PS3.B (MS-PS3-5), PS3.C (MS-PS3-2)	428-437
<b>Chapter 14 • Waves, Light, and Sound</b>		
1. Waves	MS-PS4-1, MS-PS4-2, PS4.A (MS-PS4-1), PS4.B (MS-PS4-2). PS4.A (MS-PS4-2)	446-456
2. Light	MS-PS4-2, PS4.B (MS-PS4-2)	457-467
3. Sound	MS-PS4-2, PS4.A (MS-PS4-2)	469-477
<b>Chapter 15 • Electricity and Magnetism</b>		
1. Electric Charges and Electric Forces	MS-PS2-5, PS2.B (MS-PS2-5)	486-493
2. Electric Current and Electric Circuits	MS-PS2-3, PS2.B (MS-PS2-3)	494-503
3. Magnetism	MS-PS2-5, MS-PS2-3, PS2.B (MS-PS2-5), PS2.B (MS-PS2-3)	505-515