

Simple Solutions

NextGen Science 8

Topic Guide

Lesson #	Lesson Title	DCI
1.	Kinetic Energy, Part I	MS-PS3.A* #
2.	Kinetic Energy, Part II.....	MS-PS3.A* #
3.	Kinetic Energy, Part III.....	MS-PS3.A* #
4.	Kinetic Energy, Part IV	MS-PS3.A* #
5.	Review and ongoing practice	
6.	What Is a Wave?	MS-PS4.A
7.	Properties of Waves	MS-PS4.A
8.	Energy, Frequency, and Amplitude.....	MS-PS4.A
9.	The Characteristics of Living Things	MS-LS1.A
10.	Review and ongoing practice	
11.	The Discovery of the Cell.....	MS-LS1.A* #
12.	Organelles: The Parts of Cells, Part I	MS-LS1.A #
13.	Organelles: The Parts of Cells, Part II.....	MS-LS1.A #
14.	Mitosis: Making New Cells	MS-LS1.A #
15.	Review and ongoing practice	
16.	Meiosis: Making Reproductive Cells	MS-LS1.B #
17.	DNA Replication: How a Cell Makes More DNA	MS-LS3.A #
18.	Transcription: From DNA to RNA	MS-LS3.A #
19.	Translation: Making Proteins	MS-LS3.A #
20.	Review and ongoing practice	
21.	Mutations: When DNA Changes	MS-LS3.B #
22.	Mutations and Genetic Variation	MS-LS3.B
23.	Senses: Connecting the Body and Its Environment	MS-LS1.D
24.	Reflexes.....	MS-LS1.D
25.	Review and ongoing practice	
26.	Memory, Part I	MS-LS1.D

*These lessons highlight Science and Engineering Practices

#These lessons highlight Crosscutting Practices

27. Memory, Part II	MS-LS1.D
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32. Biodiversity	MS-LS2.C
33. Keystone Species.....	MS-LS2.C #
34. Yellowstone and the Gray Wolf.....	MS-LS2.C* #
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36. How Humans Benefit from Ecosystems.....	MS-LS4.D
37. Evolution: What Darwin Saw	MS-LS4.C*#
38. Artificial Selection	MS-LS4.B*#
39. Natural Selection	MS-LS4.B #
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41. Genetic Variation: Review.....	MS-LS3.A
42. Evolution and New Species	MS-LS4.C#
43. Extinction	MS-ESS3.C
44. Evolution: Increasing Complexity	MS-LS4.A
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46. The Evolution and Diversity of Plants	MS-LS4.A
47. The Evolution and Diversity of Animals, Part I	MS-LS4.A
48. Using Body Structures to Study Evolution.....	MS-LS4.A*
49. Using Cladograms to Study Evolution	MS-LS4.A #
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51. Practice with Cladograms	MS-LS4.A #
52. The Evolution and Diversity of Animals, Part II.....	MS-LS4.A* #
53. Genetic Engineering	ETS1-3* #
54. Genetic Engineering: Golden Rice.....	ETS1-3* #
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56. Genetic Engineering: Designing Insulin	ETS1-3* #
57. Gene Therapy.....	ETS1-3* #
58. Earth's Layers	MS-ESS2.A #
59. How the Continents Move	MS-ESS2.B* #
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61. Studying the Ocean Floor	MS-ESS1.C* #
62. What Causes Earth's Plates to Move?	MS-ESS2.A #
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64. Plate Boundaries, Part II	MS-ESS2.B #
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66. Tension and Compression	MS-ESS2.A #
67. Plate Tectonics and Mountain Formation	MS-ESS2.B #
68. Plate Tectonics and Volcanoes	MS-ESS3.B #
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71. Weathering	MS-ESS2.C #
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73. Changes to Earth's Surface: Rivers	MS-ESS2.C #
74. Changes to Earth's Surface: Groundwater	MS-ESS2.C #
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76. Changes to Earth's Surface: Waves	MS-ESS2.C #
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78. Changes to Earth's Surface Are Complex	ESS2.A
79. How Latitude Affects Climate	MS-ESS2.D
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