## Simple Solutions

## NextGen Science 6 **Topic Guide**

## **Lesson Title** Lesson # DCI Kinetic Energy, Part I ...... MS-PS3.A\* # 1. Kinetic Energy, Part II......MS-PS3.A\* # 3. Kinetic Energy, Part III......MS-PS3.A\* # Kinetic Energy, Part IV ......MS-PS3.A\* # Review and ongoing practice 6 What Is a Wave?......MS-PS4.A 7. Energy, Frequency, and Amplitude......MS-PS4.A 9. The Characteristics of Living Things ...... MS-LS1.A 10. Review and ongoing practice 11. 12. 13 14. 15. Review and ongoing practice 16. DNA Replication: How a Cell Makes More DNA ...... MS-LS3.A # 17. 18. 19. Review and ongoing practice 20. 21. 22. Mutations and Genetic Variation......MS-LS3.B 23. Senses: Connecting the Body and Its Environment......MS-LS1.D 24. Reflexes.....MS-LS1.D Review and ongoing practice 25.

Memory, Part I ......MS-LS1.D

26.

<sup>\*</sup>These lessons highlight Science and Engineering Practices #These lessons highlight Crosscutting Practices

27.	Memory, Part II	MS-LS1.D
28.	Ecosystems, Part I	MS-LS2.A
29.	Population Growth and Resources	MS-LS2.A #
30.	Review and ongoing practice	
31.	Ecosystems, Part II	MS-LS2.C #
32.	Biodiversity	MS-LS2.C
33.	Keystone Species	MS-LS2.C #
34.	Yellowstone and the Gray Wolf	MS-LS2.C* #
35.	Review and ongoing practice	
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 #
40.	Review and ongoing practice	
41.	Genetic Variation: Review	MS-LS3.A
42.	Evolution and New Species	
43.	Extinction	MS-ESS3.C
44.	Evolution: Increasing Complexity	MS-LS4.A
45.	Review and ongoing practice	
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 #
50.	Review and ongoing practice	
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*#
55.	Review and ongoing practice	
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* #
60.	Review and ongoing practice	

61.	Studying the Ocean Floor	MS-ESS1.C* #
62.	What Causes Earth's Plates to Move?	MS-ESS2.A #
63.	Plate Boundaries, Part I	MS-ESS2.B #
64.	Plate Boundaries, Part II	MS-ESS2.B #
65.	Review and ongoing practice	
66.	Tension and Compression	MS-ESS2.A #
67.	Plate Tectonics and Mountain Formation	MS-ESS2.B #
68.	Plate Tectonics and Volcanoes	MS-ESS3.B #
69.	Ocean Basins	MS-ESS2.B #
70.	Review and ongoing practice	
71.	Weathering	MS-ESS2.C #
72.	Changes to Earth's Surface: Erosion and Deposition	MS-ESS2.C #
73.	Changes to Earth's Surface: Rivers	MS-ESS2.C #
74.	Changes to Earth's Surface: Groundwater	MS-ESS2.C #
75.	Review and ongoing practice	
76.	Changes to Earth's Surface: Waves	MS-ESS2.C #
77.	Changes to Earth's Surface: Wind	MS-ESS2.A
78.	Changes to Earth's Surface Are Complex	ESS2.A
79.	How Latitude Affects Climate	MS-ESS2.D
80.	Review and ongoing practice	
81.	Earth's Atmosphere and Greenhouse Gases	MS-ESS2.D #
82.	Global Winds: What Is a Convection Cell?	MS-ESS2.D #
83.	Global Winds: Three Types of Convection Cells	MS-ESS2.D #
84.	Global Winds: Westerlies and Easterlies	MS-ESS2.D #
85.	Review and ongoing practice	
86.	Global Winds, Part IV	MS-ESS2.D #
87.	How Latitude Affects Precipitation	MS-ESS2.D #
88.	Local Winds: Ocean Breezes and Land Breezes	MS-ESS2.D #
89.	Local Winds: Valley and Mountain Breezes	MS-ESS2.D #
90.	Review and ongoing practice	
91.	The Ocean: Surface Currents	MS-ESS2.C #
92.	The Ocean: Deep Currents	MS-ESS2.C #
93.	Continental Position and Climate	MS-ESS2.D #
94.	Mountains and Climate	MS-ESS2.D #

95.	Review and ongoing practice	
96.	Air Masses	MS-ESS2.D #
97.	Weather Fronts	MS-ESS2.D #
98.	Observing Weather	MS-ESS2.D*
99.	Measuring the Weather	MS-ESS2.D*
100.	Review and ongoing practice	
101.	Humans and Natural Resources	MS-ESS3.C* #
102.	Natural Resources: Petroleum	
103.	Natural Resources: Coal	MS-ESS3.A
104.	Natural Resources: Water, Part I	MS-ESS3.A
105.	Review and ongoing practice	
106.	Natural Resources: Water, Part II	MS-ETS1-3*
107.	Natural Resources: Soil, Part I	MS-ESS3.A
108.	Natural Resources: Soil, Part II	MS-ETS1-3*
109.	Natural Resources: Minerals, Part I	MS-ESS3.A
110.	Review and ongoing practice	
111.	Natural Resources: Minerals, Part II	MS-ESS3.A
112.	Natural Resources: Minerals, Part III	MS-ESS3.A* #
113.	Natural Resources: Air, Part I	MS-ESS3.A
114.	Natural Resources: Air, Part II	MS-ESS3.C* #
115.	Review and ongoing practice	
116.	Natural Hazards: Earthquakes	MS-ESS3.B* #
117.	Natural Hazards: Tsunamis	MS-ESS3.B* #
118.	Natural Hazards: Volcanic Eruptions	MS-ESS3.B* #
119.	Natural Hazards: Mass Wasting	MS-ESS3.B* #
120.	Review and ongoing practice	
121.	Natural Hazards: Drought	MS-ESS3.B* #
122.	Natural Hazards: Floods	MS-ESS3.B* #
123.	Natural Hazards: Hurricanes	MS-ESS3.B* #
124.	Natural Hazards: Tornadoes	MS-ESS3.B* #
125.	Review and ongoing practice	
126.	Earth's Global Temperature: Natural Changes	MS-ESS3.D*#
127.	Global Temperatures and Human Causes	MS-ESS3.C*#
128	What Is Causing Global Warming?	MS-FSS3 D* #

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129.	Global Temperatures and Climate Change	MS-ESS3.D* #
130.	Review and ongoing practice	
131.	Reducing Greenhouse Gases	MS-ESS3.C*#
132.	Review and ongoing practice	
133.	Review and ongoing practice	
134.	Review and ongoing practice	
135.	Review and ongoing practice	
136.	Review and ongoing practice	
137.	Review and ongoing practice	
138.	Review and ongoing practice	
139.	Review and ongoing practice	
140.	Review and ongoing practice	