

A Correlation of  
**Elevate Science: Earth**  
©2019



To the  
**Idaho Content Standards for Science  
Earth and Space Sciences**  
**Grades 6-8**

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**Introduction**

This document demonstrates how ***Elevate Science* ©2019** meets the Idaho Content Standards for Science. Correlation page references are to the Student and Teacher’s Editions and cited at the page level.

Savvas is proud to introduce ***Elevate Science*** Middle Grades – where exploration is the heart of science! Designed to address the rigors of new science standards, students will experience science up close and personal, using real-world, relevant phenomena to solve project-based problems. Our newest program prepares students for the challenges of tomorrow, building strong reasoning skills and critical thinking strategies as they engage in explorations, formulate claims, and gather and analyze data that promote evidence-based arguments. The blended print and digital curriculum covers all Next Generation Science Standards at every grade level.

***Elevate Science*** helps teachers transform learning, promote innovation, and manage their classroom.

**Transform** science classrooms by immersing students in active, three-dimensional learning.

***Elevate Science*** engages students with real-world tasks, open-ended Quests, uDemonstrate performance-based labs, and in the engineering/design process with uEngineer It! investigations.

- A new 3-D learning model enhances best practices.
- Engineering-focused features infuse STEM learning.
- Phenomena-based activities put students at the heart of a Quest for knowledge.

**Innovate** learning by focusing on 21st century skills.

Students are encouraged to think, collaborate, and innovate! With ***Elevate Science***, students explore STEM careers, experience engineering activities, and discover our scientific and technological world. The content, strategies, and resources of ***Elevate Science*** equip the science classroom for scientific inquiry and science and engineering practices.

- Problem-based learning Quests put students on a journey of discovery.
- STEM connections help integrate curriculum.
- Coding and innovation engage students and build 21st century skills.

**Manage** the classroom with confidence.

Teachers will lead their class in asking questions and engaging in argumentation. Evidence-based assessments provide new options for monitoring student understanding.

- Professional development offers practical point-of-use support.
- Embedded standards in the program allow for easy integration.
- ELL and differentiated instruction strategies help instructors reach every learner.
- Interdisciplinary connections relate science to other subjects.

Designed for today's classroom, preparing students for tomorrow's world. ***Elevate Science*** promises to:

- Elevate thinking.
- Elevate learning.
- Elevate teaching.

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ESS1-MS Earth's Place in the Universe	
<b>Performance Standard</b>	
ESS1-MS-1 Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons.	<b>SE/TE:</b> Quest Kickoff: How are tides related to our place in space?, 490-491 Quest Check-In, 501 Quest Connection, 504 The Seasons, 507-508 Quest Check-In, 512 Quest Connection, 514 Connect It!, 514 Phases of the Moon, 517-518 Model It!: Solar and Lunar Eclipses, 519 Eclipses, 519 The Moon and Sun, 520 Tides, 520-521 Math Toolbox: High and Low Tides, 520 Spring and Neap Tides, 521 Lesson 3 Check, 522 Topic Review and Assess, 524-525 uDemonstrate Lab: Modeling Lunar Phases, 528-531 Case Study: Comparing Solar System Objects, 548-549
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ESS1-MS-1.ESS1.A.i Patterns of the apparent motion of the sun, the moon, and stars in the sky can be observed, described, predicted, and explained with models.	<b>SE/TE:</b> Seasonal Changes, 496 Movement in the Sky, 496-497 Planets, 497 Geocentric Model, 498 Galileo's Discovery, 499 Heliocentric Model, 499 Confirming the Geocentric Model, 500 Model It!: Models of the Universe, 500 Lesson 1 Check, 501

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ESS1-MS-1.ESS1.B Earth and the Solar System	
ESS1-MS-1.ESS1.B.i This model of the solar system can explain eclipses of the sun and the moon. Earth’s spin axis is fixed in direction over the short-term but tilted relative to its orbit around the sun. The seasons are a result of that tilt and are caused by the differential intensity of sunlight on different areas of Earth across the year.	<b>SE/TE:</b> Design It!, 506 Seasons Figure 3, 507 The Seasons, 507-508 Model It!: Solar and Lunar Eclipses, 519 Eclipses, 519 Topic Review and Assess, 524-525
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<b>Supporting Content</b>	
ESS1-MS-2.ESS1.A The Universe and Its Stars	
ESS1-MS-2.ESS1.A.i Earth and its solar system are part of the Milky Way galaxy, which is one of many galaxies in the universe.	<b>SE/TE:</b> Galaxies, 573 The Andromeda Galaxy, 574 Extraordinary Science: Traveling Through the Milky Way, 579
ESS1-MS-2.ESS1.B Earth and the Solar System	
ESS1-MS-2.ESS1.B.i The solar system consists of the sun and a collection of objects, including planets, their moons, and asteroids that are held in orbit around the sun by its gravitational pull on them.	<b>SE/TE:</b> Gravity, 509 Gravity and Orbits, 509-511 Orbital Motion, 511 Connect It!, 536 Understanding the Solar System, 537-540 Smaller Solar System Objects, 540 Solar System Formation, 546 Lesson 1 Check, 547 Extraordinary Science: Traveling Through the Milky Way, 579 Evidence-Based Assessment, 582-583

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ESS1-MS-2.ESS1.B.ii The solar system appears to have formed from a disk of dust and gas, drawn together by gravity.	<b>SE/TE:</b> Solar System Formation, 546 Interactivity, 546 Forming the Solar System Figure 8, 546 Lesson 1 Check, 547
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<b>Supporting Content</b>	
ESS1-MS-4.ESS1.C The History of Planet Earth	
ESS1-MS-4.ESS1.C.i The geologic time scale interpreted from rock strata provides a way to organize Earth’s history. Analyses of rock strata and the fossil record provide only relative dates, not an absolute scale.	<b>SE/TE:</b> Quest Kick Off: How do paleontologists know where to look for fossils?, 364-365 Relative Age, 367 Position of Rock Layers, 368 Using Fossils, 369 Quest Check-In, 373 Lesson 1 Check, 373 Connect It!, 376 Quest Connection, 376 The Geologic Time Scale, 377-379 Lesson 2 Check, 382 Quest Connection, 384 Quest Check-In, 392 Topic Review and Assess, 394-395 Evidence-Based Assessment, 396-397
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ESS2-MS-1 Develop a model to describe the cycling of Earth’s materials and the flow of energy that drives this process.	<b>SE/TE:</b> Quest Kickoff: How can you predict the effects of a forest fire?, 2-3 Quest Connection, 4 The Earth System, 5-7 Water and Rock Cycles, 5 Earth’s Spheres, 6 Model It!: Sea Ice and Climate, 8 Positive and Negative Feedback, 8 System Feedback, 8-9 Interacting Spheres, 9 Lesson 1 Check, 10 Quest Check-In, 10 Quest Connection, 12 Quest Check-In, 22 Quest Connection, 24 Connect It!, 24 Quest Check-In, 33 Lesson 1 Check, 55 Lesson 1 Check, 116 Sedimentary Rock, 132 The Cycling of Earth's Materials, 137-140 The Flow of Energy in the Rock Cycle, 138-139

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<b>Supporting Content</b>	
ESS2-MS-1.ESS2.A Earth's Materials and Systems	
ESS2-MS-1.ESS2.A.i All Earth processes are the result of energy flowing and matter cycling within and among the planet's systems. This energy is derived from the sun and Earth's hot interior. The energy that flows and matter that cycles produce chemical and physical changes in Earth's materials and living organisms.	<b>SE/TE:</b> Quest Kickoff: How can you predict the effects of a forest fire?, 2-3 Connect It!, 4 Quest Connection, 4 Water and Rock Cycles, 5 Earth's Spheres, 6 Energy Flow, 7 Positive and Negative Feedback, 8 System Feedback, 8-9 Interacting Spheres, 9 Quest Check-In, 10 Quest Connection, 12 Connect It!, 12 Quest Check-In, 22 Quest Connection, 24 Lesson 3 Check, 33 Quest Check-In, 33 Quest Connection, 48 Earth's Insulator, 49-53 Heating of Earth, 53 Lesson 1 Check, 55 Heat Transfer at Earth's Surface, 413 Quest Check-In, 414 Lesson 1 Check, 414 Extraordinary Science: Urban Heat Islands, 457 Topic 1 Opener: Introduction to Earth's Systems, xx-1



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<b>Performance Standards</b>	
<p>ESS2-MS-2 Construct an explanation based on evidence for how geoscience processes have changed Earth’s surface at varying time and spatial scales.</p>	<p><b>SE/TE:</b>            Quest Check-In, 22            Topic Review and Assess, 144-145            Quest Kickoff: How safe is it to hike around Mount Rainier?, 154-155            Quest Connection, 156            Model It!: Predict North America's Movement, 163            Types of Crust, 168            Lesson 2 Check, 175            Case Study: Australia on the Move, 176-177            Stress and Earth’s Crust, 179-180            Anticlines and Synclines, 182            Earthquakes, 183-185            Landslides, 187            Lesson 3 Check, 188            Quest Check-Ins, 188            Lesson 4 Check, 199            Topic Review and Assess, 200-201            Topic 5 Opener: Earth's Surface Systems, 208-209            Breaking Down Earth's Surface, 213            Soil Composition, 217            Quest Check-In, 220            Connect It!, 222            Lesson 2 Check, 228            Connect It!, 230            Quest Connection, 230            Groundwater Changes of Earth's Surface, 237-238            Case Study: Buyer Beware!, 240-241            Glacial Erosion, 245            Landforms Formed by Wave Erosion, 249            Literacy Connection: Write Informative Texts, 249            Lesson 4 Check, 251            Evidence-Based Assessment, 254-255</p>

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<b>Supporting Content</b>	
ESS2-MS-2.ESS2.A Earth's Materials and Systems	
ESS2-MS-2.ESS2.A.i The planet's systems interact over scales that range from microscopic to global in size, and they operate over fractions of a second to billions of years. These interactions have shaped Earth's history and will determine its future.	<b>SE/TE:</b> Global-to-Local: When the Ice Melts, 11 Quest Connection, 156 Stress and Earth's Crust, 179-180 Earthquakes, 183-185 Quest Connection, 190
ESS2-MS-2.ESS2.C The Roles of Water in Earth's Surface Processes	
ESS2-MS-2.ESS2.C.i Water's movements-both on the land and underground-cause weathering and erosion, which change the land's surface features and create underground formations.	<b>SE/TE:</b> Connect It!, 136 Lesson 4 Check, 141 Topic 5 Opener: Earth's Surface Systems, 208-209 Quest Kickoff: How can I design and build an artificial island?, 210-211 Connect It!, 212 Quest Connection, 212 Breaking Down Earth's Surface, 213 Quest Check-In, 220 Lesson 1 Check, 220 Quest Connection, 222 Connect It!, 222 Changing Earth's Surface, 223 Quest Check-In, 228 Connect It!, 230 Quest Connection, 230 How Water Causes Erosion, 231-232 Runoff, 231 Stream Formation, 232 Water Erosion and Deposition Change Earth's Surface, 233-236 Water Erosion, 233-234 Water Deposition, 235-236 Groundwater Erosion, 237 Groundwater Changes of Earth's Surface, 237-238 Groundwater Deposition, 237 Karst Topography, 238 Quest Check-In, 239 Lesson 3 Check, 239 Connect It!, 242 Quest Connection, 242

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ESS2-MS-3.ESS1.C The History of Planet Earth	
ESS2-MS-3.ESS1.C.i Tectonic processes continually generate new ocean sea floor at ridges and destroy old sea floor at trenches.	<b>SE/TE:</b> Constructive Forces, 14 Constructive and Destructive Forces in the Geosphere, 14 Destructive Forces, 15 Lesson 3 Check, 33 Lesson 1 Check, 164 Plate Boundaries, 171-174 Divergent Boundaries, 172 Normal Fault, 180
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<b>Performance Standards</b>	
ESS2-MS-4 Develop a model to describe the cycling of water through Earth’s systems driven by energy from the sun and the force of gravity.	<b>SE/TE:</b> Quest Kickoff: How can you predict the effects of a forest fire?, 2-3 Connect It!, 4 Water and Rock Cycles, 5 Model It!: Sea Ice and Climate, 8 Lesson 1 Check, 10 The Water Cycle, 25-26 Condensation, 26 Precipitation, 26 Topic Review and Assess, 36-37 uDemonstrate Lab: Modeling a Watershed, 40-43 Connect It!, 56 Model It!: Identify Patterns, 63 The Water Cycle, 63 Lesson 2 Check, 64 uEngineer It!: Catching Water With a Net, 65 Topic 1 Opener: Introduction to Earth's Systems, xx-1
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ESS2-MS-4.ESS2.C The Roles of Water in Earth’s Surface Processes	
ESS2-MS-4.ESS2.C.i Water continually cycles among land, ocean, and atmosphere via transpiration, evaporation, condensation and crystallization, and precipitation, as well as downhill flows on land.	<b>SE/TE:</b> Connect It!, 4 Water and Rock Cycles, 5 Lesson 1 Check, 10 The Water Cycle, 25-26 Evaporation, 25 Condensation, 26 Precipitation, 26 Lesson 3 Check, 33 Topic Review and Assess, 36-37 Connect It!, 56 Water Enters the Atmosphere, 57-59 Condensation, 58 Water Leaves the Atmosphere, 60-62 The Water Cycle, 63 Quest Check-In, 64 Topic Review and Assess, 94-95

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ESS2-MS-4.ESS2.C.ii Global movements of water and its changes in form are propelled by sunlight and gravity.	<b>SE/TE:</b> The Water Cycle, 25-26 The Water Cycle Figure 2, 26 Interactivity , 26 uDemonstrate Lab: Modeling a Watershed, 40-43
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ESS2-MS-5.ESS2.D Weather and Climate	
ESS2-MS-5.ESS2.D.i Because these patterns are so complex, weather can only be predicted using probability.	<b>SE/TE:</b> Topic 2 Opener: Weather in the Atmosphere, 44-45 Quest Kickoff: How can you prepare for severe weather?, 46-47 Quest Connection, 56 Quest Connection, 66 Quest Connection, 74 Quest Check-In, 80 Quest Connection, 82 Types of Severe Storms, 83-88 Winter Storms, 84 Thunderstorms, 85 Storm Safety, 90 Quest Check-In, 91 Quest Connection, 178
<b>Performance Expectations</b>	
ESS2-MS-6 Develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates.	<b>SE/TE:</b> Connect It!, 48 Winds, 54 Lesson 1 Check, 55 Math Toolbox: Isobars, 78 Lesson 4 Check, 80 Effects of Global Wind Belts, 422 Global Wind Patterns, 422-423 Factors Affecting Surface Currents, 428 Topic Review and Assess, 436-437 Factors That Affect Temperature, 449-451 Ocean Currents, 451 Prevailing Winds, 452 Natural Processes, 461 Extreme Weather Change, 474-475
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ESS2-MS-6.ESS2.C The Roles of Water in Earth's Surface Processes	
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ESS2-MS-6.ESS2.D Weather and Climate	
ESS2-MS-6.ESS2.D.i Weather and climate are influenced by interactions involving sunlight, the ocean, the atmosphere, ice, landforms, and living things. These interactions vary with latitude, altitude, and local and regional geography, all of which can affect oceanic and atmospheric flow patterns.	<b>SE/TE:</b> Model It!: Sea Ice and Climate, 8 Topic Review and Assess, 36-37 Air Pressure, 51-52 Winds, 54 Lesson 1 Check, 55 Relative Humidity, 59 Quest Check-In, 64 Global Patterns and Local Weather, 77 Connect It!, 292 Topic 9 Opener Energy in the Atmosphere and Ocean, 402-403 Surface Currents, 427-430 Effects on Climate, 429 Topic Review and Assess, 436-437 Connect It!, 448 Factors That Affect Temperature, 449-451 Altitude, 450 Latitude, 450 Math Toolbox: Temperature and Altitude, 450 Ocean Currents, 451 Classifying Climates, 454 Lesson 1 Check, 456 Topic Review and Assess, 480-481
ESS2-MS-6.ESS2.D.ii The ocean exerts a major influence on weather and climate by absorbing energy from the sun, releasing it over time, and globally redistributing it through ocean currents.	<b>SE/TE:</b> Topic 9 Opener Energy in the Atmosphere and Ocean, 402-403 Surface Currents, 427-430 Effects on Climate, 429 Topic Review and Assess, 436-437 Factors That Affect Temperature, 449-451 Ocean Currents, 451 Distance from Large Bodies of Water, 451 Lesson 1 Check, 456



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ESS3-MS-1 Construct a scientific explanation based on evidence for how the uneven distributions of Earth’s mineral, energy, and groundwater resources are the result of past and current geoscience processes.	<b>SE/TE:</b> Groundwater, 30 Characteristics, 119 Mineral Distribution, 125 Lesson 2 Check, 126 Ocean Trenches, 162-163 Model It!: Predict North America's Movement, 163 Lesson 3 Check, 239 Coal, 266-267 Oil, 268-269 Lesson 1 Check, 273 Lesson 2 Check, 280 Minerals and Ores, 283-287 How Minerals Form, 284-285 Distribution of Minerals, 286-287 Quest Check-In, 289 Lesson 3 Check, 289 Case Study: Phosphorus Fiasco, 290-291 Water on Earth, 293-295 Groundwater, 295 Human Impacts, 296-297 Quest Check-In, 298 Lesson 4 Check, 298 It's All Connected: The Pseudoscience of Water Dowsing, 299 Topic Review and Assess, 300-301 Evidence-Based Assessment, 302-303 uDemonstrate Lab: To Drill or Not to Drill, 304-307 Water as a Resource, 345 Lesson 4 Check, 352

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ESS3-MS-1.ESS3.A Natural Resources	
ESS3-MS-1.ESS3.A.i Humans depend on Earth's land, ocean, atmosphere, and biosphere for many different resources. Minerals, fresh water, and biosphere resources are limited, and many are not renewable or replaceable over human lifetimes. These resources are distributed unevenly around the planet as a result of past geologic processes.	<b>SE/TE:</b> Groundwater, 30 Connect It!, 264 Natural Resources, 265 Coal, 266-267 Fossil Fuels, 266-270 Oil, 268-269 Natural Gas, 270 Using Energy Resources, 272 Lesson 1 Check, 273 Quest Check-In, 273 Quest Connection, 282 Minerals and Ores, 283-287 How Minerals Form, 284-285 Humans and Minerals, 288 Quest Check-In, 289 Lesson 3 Check, 289 Water on Earth, 293-295 Surface Water, 294 Groundwater, 295 Using Water, 296 Human Impacts, 296-297 Other Water Resources, 297 Quest Check-In, 298 Lesson 4 Check, 298 Topic Review and Assess, 300-301 Human Activity, 316 Using Natural Resources, 316-317 Lesson 1 Check, 319 Land as a Resource, 331-332 Quest Check-In, 341 Water as a Resource, 345 Lesson 4 Check, 352 Topic Review and Assess, 354-355

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<b>Performance Expectation</b>	
ESS3-MS-2 Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.	<b>SE/TE:</b> Quest Kickoff: How can you prepare for severe weather?, 46-47 Quest Connection, 82 Winter Storms, 84 Storm Safety, 90 Lesson 5 Check, 91 Case Study: The Case of the Runaway Hurricane, 92-93 Quest Kickoff: How safe is it to hike around Mount Rainier?, 154-155 Quest Connection, 178 Math Toolbox: Finding an Epicenter, 185 uEngineer It!: Designing to Prevent Destruction, 189 Quest Kickoff: How can I design and build an artificial island?, 210-211 uEngineer It!: Ground Shifting Advances, 221 Quest Check-In, 228 Case Study: Buyer Beware!, 240-241 uDemonstrate Lab: Materials on a Slope, 256-259
<b>Supporting Content</b>	
ESS3-MS-2.ESS3.B Natural Hazards	
ESS3-MS-2.ESS3.B.i Mapping the history of natural hazards in a region, combined with an understanding of related geologic forces can help forecast the locations and likelihoods of future events.	<b>SE/TE:</b> Types of Severe Storms, 83-88 Hurricanes, 86 Tornadoes, 88 Floods and Droughts, 89 Droughts and Excessive Heat, 89 Case Study: The Case of the Runaway Hurricane, 92-93
ESS3-MS-3 Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.	<b>SE/TE:</b> Case Study: The Case of the Shrinking Sea, 34-35 uEngineer It!: Designing to Prevent Destruction, 189 Plan It!: Household Energy Use, 272 Micro-Hydro Power, 281 Quest Check-In, 467 Energy-Efficient Technologies, 476 uEngineer It!: Changing Climate Change, 479

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ESS3-MS-3.ESS3.C Human Impacts on Earth Systems	
ESS3-MS-3.ESS3.C.i Human activities can have consequences (positive and negative) on the biosphere, sometimes altering natural habitats and causing the extinction of other species.	<b>SE/TE:</b> Aquifers, 30 Wells, 30 Quest Connection, 292 Using Water, 296 Quest Check-In, 298 Impact on the Earth System, 317 Quest Connection, 330 Land as a Resource, 331-332 Mining, 332 Agriculture, 332 Development, 332 Structure of Soil, 333 Nutrient Depletion, 334 Erosion, 334 Desertification, 335 Land Reclamation, 336 Landfills, 336 Wetlands, 337 Logging Methods, 339 Sustainable Forestry, 340 Lesson 3 Check, 341 Industrial Wastes, 346 Household Pollutants, 346 Farming Wastes, 346 Sources of Freshwater Pollution, 346 Oil and Gasoline, 347 Sediment, 347 Heat, 347 Sources of Ocean Pollution, 348-349 Natural Occurrences, 348 Human Activities, 348-349 Reducing Water Pollution, 350-351 Protecting the Ocean, 350 Cleaning Oil Spills, 350 Improved Farming Methods, 351 Reducing Pollutants, 351 Quest Check-In, 352 Lesson 4 Check, 352 Global to Local: A New Mass Extinction?, 393

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ESS3-MS-3.ESS3.C.ii Technology and engineering can potentially mitigate impacts on Earth's systems as both human populations and per-capita consumption of natural resources increase.	<b>SE/TE:</b> Quest Connection, 82 Case Study: The Case of the Runaway Hurricane, 92-93 Math Toolbox: Finding an Epicenter, 185 uEngineer It!: Designing to Prevent Destruction, 189 Quest Kickoff: How can I design and build an artificial island?, 210-211 uEngineer It!: Ground Shifting Advances, 221 Quest Check-In, 228 Case Study: Phosphorus Fiasco, 290-291 Connect It!, 312 The Human Population, 313 Human Activity, 316 Lesson 1 Check, 319
<b>Performance Expectation</b>	
ESS3-MS-4 Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.	<b>SE/TE:</b> uDemonstrate Lab: Water from Trees, 98-101 World Politics, 272 Quest Check-In, 289 Case Study: Phosphorus Fiasco, 290-291 Lesson 4 Check, 298 Topic Review and Assess, 300-301 Topic 7 Opener: Human Impacts on the Environment, 308-309 Connect It!, 312 The Human Population, 313 Human Activity, 316 Balancing Needs, 318 Lesson 1 Check, 319 Acid Rain, 324 Quest Check-In, 328 Lesson 2 Check, 328 Development, 332 Literacy Connection: Cite Textual Evidence, 337 Lesson 3 Check, 341 Quest Check-In, 341 Literacy Connection: Draw Evidence, 347 Lesson 4 Check, 352 Topic Review and Assess, 354-355 Evidence-Based Assessment, 356-357 uDemonstrate Lab: Washing Away, 358-361

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<b>Supporting Content</b>	
ESS3-MS-4.ESS3.C Human Impacts on Earth Systems	
ESS3-MS-4.ESS3.C.i Technology and engineering can potentially mitigate impacts on Earth's systems as both human populations and per-capita consumption of natural resources increase.	<b>SE/TE:</b> Storm Safety, 90 Case Study: Phosphorus Fiasco, 290-291 Connect It!, 312 The Human Population, 313 Human Activity, 316 Lesson 1 Check, 319
<b>Performance Expectation</b>	
ESS3-MS-5 Ask questions to interpret evidence of the factors that cause climate variability over time.	<b>SE/TE:</b> Model It!: Sea Ice and Climate, 8 Connect It!, 448 Factors That Affect Temperature, 449-451 Latitude and Temperature Figure 2, 450 Quest Check-In, 456 Interactivity: Footprint Steps, 456 Extraordinary Science: Urban Heat Islands, 457 Earth's Climate History, 460 Natural Processes, 461 Recent Climate Change, 463-466 Lesson 2 Check, 467
<b>Supporting Content</b>	
ESS3-MS-5.ESS3.C Human Impacts on Earth Systems	
ESS3-MS-5.ESS3.C.i Mitigating current changes in climate depends on understanding climate science. Current scientific models indicate that human activities, such as the release of greenhouse gases from fossil fuel combustion, are the primary factors in the present-day measured rise in Earth's mean surface temperature. Natural activities, such as changes in incoming solar radiation, also contribute to changing global temperatures.	<b>SE/TE:</b> Global-to-Local: When the Ice Melts, 11 Fossil Fuels, 266-270 Oil, 268-269 Natural Gas, 270 Pollution, 272 Using Energy Resources, 272 Lesson 1 Check, 273 Topic Review and Assess, 300-301 Connect It!, 320 Protecting the Ozone Layer, 327 Global to Local: A New Mass Extinction?, 393 The Greenhouse Effect, 410 Greenhouse Effect, 459 Recent Climate Change, 463-466 Human Activities, 464-465 Lesson 2 Check, 467