COURSE NUMBER: 2007020	COURSE NAME: M/J COMPREHENSIVE SCI	ENCE 2
UNIT TITLE: The Nature of Science	UNIT ESSENTIAL QUESTION:	
SEMESTER: 1 Grading Period: 1	How Do Scientist Investigate of How Does Scientific Knowledge	
CONCEPT	CONCEPT	CONCEPT
Science And The Natural World	Thinking Like A Scientist	Measurement – A Common Language
STANDARD(S)	STANDARD(S)	STANDARD(S)
SC.7(8).N.1.1, SC.7.N.1.2, SC.7.N.1.5, SC.7(6).N.2.2, SC.7.N.3.1, LA.7.4.2.2, MA.6.3.6	SC.7.N.1.1, LA.7.2.2.3	SC.7.N.1.1
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
What skills do scientists use?	What attitudes help you think scientifically? What scientific reasoning?	Why do scientists use a standard measurement system? What are some SI units of measurement?
VOCABULARY	VOCABULARY	VOCABULARY
Science, observing, inferring, predicting, classifying, evaluating, models, variable, independent variable, dependent variable	Skepticism, ethics, personal bias, cultural bias, experimental bias, objective, deductive reasoning, inductive reasoning	Metric system, International System of Units (SI), mass, weight, volume, meniscus, density
	RESOURCES	
Lab Zone – Inquiry warm-up, is it really true? Teacher Demo – Classifying Plants Quick Lab – Classifying Objects Image Library Assess Understanding – What Skills do scientists use? Key Concept Summary – What skills do scientists use? Review and Reinforce – Understanding main ideas Enrich – Scientists Needed	Lab Zone – How keen are your senses Teacher Demo – Quick Lab – Thinking like a scientist Image Library Assess Understanding – What attitudes help you think Scientifically? Key Concept Summary – What attitudes help you think Scientifically? Review and Reinforce – Understanding main ideas Enrich – Scientists working together	Lab Zone – History of measurement Teacher Demo – Use a triple-beam balance - Volume of a rock and shoebox Quick Lab – Measurement of Time Image Library Assess Understanding – History of measurement Key Concept Summary – Why a standard of measurement Review and Reinforce – Understanding main ideas Enrich – Converting English units to metric units

Additional Information		
Digital Lesson	Digital Lesson	Digital Lesson
Art in Motion	Art in Motion	Art in Motion
MyScienceonline.com – What is science?	MyScienceonline.com – Scientific thinking	MyScienceonline.com – Standard Measurement System
- Skills scientists use	 Scientific reasoning 	- Virtual Lab
- My science coach	- My science coach	- SI Units of Measurement
		- My science coach

CONCEPT	CONCEPT	CONCEPT
Mathematics and Science	Graphs in Science	Scientific Inquiry
STANDARD(S)	STANDARD(S)	STANDARD(S)
SC.7.N.1.1, MA.6.S.6.2, MA.6.A.3.6	SC.7.N.1.1, MA.6.A.3.6, LA.7.2.2.3	SC.7.N.1.1, SC.N.1.2, LA.7.4.2.2, MA.6.A.3.6
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
What Math Skills Do Scientists Use?	What Kinds of Data Do Line Graphs Display?	What is Scientific Inquiry
What Math Tools Do Scientists Use?	Why Are Line Graphs Powerful Tools?	How Do You Design and Conduct an Experiment?
VOCABULARY	VOCABULARY	VOCABULARY
Estimate, accuracy precision, significant figures, percent error, mean, median, mode, range, anomalous data	Graph, linear graph, nonlinear graph	Scientific inquiry, hypothesis, controlled experiment, data, repeated trials, replication
	RESOURCES	
Lab Zone – How many marbles are there? Teacher Demo – Measure length with accuracy and precision Quick Lab – For good measure Image Library Assess Understanding – What math skills do scientists Use? Key Concept Summary – What math skills do scientists Use? Review and Reinforce – Understanding main ideas Enrich – Precision and range	Lab Zone –What's in a picture Lab – Investigating density graphs Image Library Assess Understanding – What kinds of data do line graphs display? Key Concept Summary – What kinds of data do line graphs display? Review and Reinforce – Understanding main ideas Enrich – Bar graphs	Lab Zone – What's happening? Teacher Demo – Observe rate of fall Quick Lab – Scientific inquiry Lab Investigation – Keeping flowers fresh Image Library Assess Understanding – What is scientific inquiry Key Concept Summary – What is scientific inquiry Review and Reinforce – Understanding main ideas Enrich – An enlightening discovery
	Additional Information	
Digital Lesson Art in Motion MyScienceonline.com — Math skills - Digital lesson - My science coach - Math tools	Digital Lesson Art in Motion MyScienceonline.com — Line graphs - Using line graphs - My science coach - Line graphs	Digital Lesson Art in Motion MyScienceonline.com – Scientific inquiry - Scientific methodology - My science coach - scientific knowledge

CONCEPT	CONCEPT	CONCEPT
Scientific Explanation	Scientists and Society	How Science Changes
STANDARD(S)	STANDARD(S)	STANDARD(S)
SC.7.N.1.5, SC.7.N.1.6, MA.6.A.3.6	SC.7.N.1.7, LA.7.2.2.3	SC.7.2.1, SC.7.N.3.1, LA.7.2.2.3
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
How Do Scientists Form Scientific Explanations?	How Do Scientists Affect Society?	How Does Scientific Knowledge Change?
What Is the Basis for Scientific Explanations?		How Is a Scientific Law Different from a Theory?
VOCABULARY	VOCABULARY	VOCABULARY
Scientific explanation, empirical evidence, opinion	Controversy	Scientific theory, scientific law
	RESOURCES	
Lab Zone – Piecing information together	Lab Zone – What do scientists do?	Lab Zone – Changing Science
Image Library	Inquiry Lab – Sequence Events	- Theories and Laws
Assess Understanding – How do scientists form	Image Library	Quick Lab – Scientific knowledge
Scientific Explanation	Assess Understanding – How does society affect the	Teacher Demo –
Key Concept Summary – How do scientists form	work of scientists?	Image Library
Scientific Explanation	Key Concept Summary – How does society affect the	Assess Understanding – How does scientific
Review and Reinforce – Understanding Main Ideas	work of scientists?	knowledge
Enrich – Thin ice	Review and Reinforce – Understanding main ideas	change
	Enrich – Nobel Prizes in Science	Key Concept Summary – How does scientific knowledge
		change
		Review and Reinforce – Understanding main ideas
		Enrich – Radioactivity and scientific knowledge
	Additional Information	
Digital Lesson	Digital Lesson	Digital Lesson
Art in Motion	Art in Motion	Art in Motion
MyScienceonline.com – Empirical Evidence	MyScienceonline.com – Scientists and Society	MyScienceonline.com – How science changes
	- my science coach	- my science coach

CONCEPT	CONCEPT	CONCEPT
Models as Tools in Science		
STANDARD(S)	STANDARD(S)	STANDARD(S)
SC.7.N.3.2, LA.7.2.2.3	OTANDARD(O)	σταιυαιτυ(σ)
36.7.N.3.2, EN.7.2.2.3		
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
Why do scientists use models?		
What is a system?		
How are models of systems used?		
VOCABULARY	VOCABULARY	VOCABULARY
Model, system, input, process, output, feedback		
	RESOURCES	
Lab Zone –	REGOOKGEG	
Inquiry Lab – Scale models		
Quick Lab – Making models		
- Systems		
- Models in nature		
Insert Library		
Image Library Assess Understanding – Why do scientists use models?		
Key Concept Summary – Why scientists use models?		
Review and Reinforce – Understanding main ideas		
Enrich – A scientific model		
	Additional Information	
Digital Lesson		
Art in Motion		
MyScienceonline.com – Scientific Models - Systems		
- My science coach		
- understanding systems		
- Models of systems		

COURSE NUMBER, 2007020	COURSE NAME: M/J COMPREHENSIVE SC	SIENCE 2
COURSE NUMBER: 2007020 UNIT TITLE: The Structure of Earth	UNIT ESSENTIAL QUESTION:	
SEMESTER: 1 Grading Period:	What is the Structure of Earth How Do Scientists Study Earth How Do Moving Plates Chang How Does a Volcano Erupt?	n's Past?
CONCEPT	CONCEPT	CONCEPT
Earth's Interior	Convection and the Mantle	Classifying Rocks
STANDARD(S)	STANDARD(S)	STANDARD(S)
SC.7.N.1.3, SC.7.N.3.2, SC.7.E.6.1, SC.LA.7.2.2. MA.6.A.3.6	3, SC.7.E.6.1, LA.7.2.2.3	SC.7.E.6.2, LA.7.2.2.3
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
How Do Geologist Learn About Earth's Interior? What Are the Features of Earth's Crust, Mantle, an Core?	How Is Heat Transferred? d How Does Convection Occur in Earth's Mantle?	How Do Geologists Classify Rocks?
VOCABULARY	VOCABULARY	VOCABULARY
Seismic wave, pressure, crust , basalt, outer core, i core	current	Rock-forming mineral, grain, texture, igneous rock, sedimentary rock, metamorphic rock
	RESOURCES	
Lab Zone Inquiry Warm-Up — Earth's Interior Quick Lab — How Do Scientists Find Out What's Ins Earth? -Build a Model of the Earth Image Library Assess Understanding — How do geologists learn a Earth's interior Key Concept Summary — How do geologists learn a Earth's interior Review and Reinforce — Understanding main ideas Enrich — Difference in arrival time	Teacher Demo – Image Library Assess Understanding – How Is Heat Transferred? Key Concept Summary – How Is Heat Transferred? Review and Reinforce – Understanding Main Ideas Enrich – What's Happening During the Convection?	Lab Zone – Inquiry Warm-Up – How Do Rocks Compare? Quick Lab – Classify These Rocks Teacher Demo – Image Library Assess Understanding – How Do Geologists Classify Rocks? Key Concept Summary – How Do Geologists Classify Rocks? Review and Reinforce – Understanding Main Ideas Enrich – A Crust Full of Rocks

Additional Information		
Digital Lesson	Digital Lesson	Digital Lesson
Art in Motion	Art in Motion	Art in Motion
MyScienceonline.com – Uncovering Earth's Interior	MyScienceonline.com – Heat Transfer	MyScienceonline.com – Classifying Rocks
- Earth's Interior	- Mantle Convection	

CONCEPT	CONCEPT	CONCEPT
Igneous and Matamorphic Rocks	Sedimentary Rocks	The Rock Cycle
OTANDA DD (O)	OTANDADD(O)	OTANDADD(O)
STANDARD(S)	STANDARD(S)	STANDARD(S)
SC.7.E.6.2, LA.7.2.2.3	SC.7.E.6.2, LA.7.2.2.3	SC.7.N.3.2, SC.7.E.6.2, LA.7.2.2.3
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
	How Do Sedimentary Form?	What is the Rock Cycle?
How Do Geologists Classify Igneous Rocks?	·	What is the Rock Cycle?
What Are Metamorphic Rocks?	What Are the Three Major Types of Sedimentary Rocks?	
VOCABULARY	How Are Sedimentary Used? VOCABULARY	VOCABULARY
Extrusive rock, intrusive rock, foliated	Sediment, weathering, erosion, deposition,	Rock cycle
	compaction, cementation, clastic rock, organic rock,	
	chemical rock	
	RESOURCES	
Lab Zone –	Lab Zone –	Lab Zone –
Inquiry Warm-Up – A Sequined Rock	Inquiry Warm-Up – Acid Test for Rocks	Inquiry Warm-Up – Recycling Rocks
Quick Lab – How Do Igneous Rocks Form?	Quick Lab – How Does Pressure Affect Particles of	Quick Lab – Which Came First?
- How Do Grain Patterns Compare?	Rock?	Teacher Demo –
Teacher Demo –	- What Causes Layers	Image Library
Image Library	- Testing Rock Flooring	Assess Understanding – What is the Rock Cycle?
Assess Understanding – How Do Geologists Classify	Build Inquiry: Classifying Sedimentary Rocks?	Key Concept Summary – What is The Rock Cycle?
Igneous Rocks?	Teacher Demo –	Review and Reinforce – Understanding Main Ideas Enrich – Alternate Pathways
Key Concept Summary – How Do Geologists Classify	Image Library	Enrich – Alternate Pathways
Igneous Rocks? Review and Reinforce – Understanding Main Ideas	Assess Understanding – How Do Sedimentary Rocks Form?	
Enrich – The Same But Different	Key Concept Summary — How Do Sedimentary Rocks	
Ellich – The Same But Different	Form?	
	Review and Reinforce – Understanding Main Ideas	
	Enrich – The Formation of Coal	
	Additional Information	
Digital Lesson	Digital Lesson	Digital Lesson
Art in Motion	Art in Motion	Art in Motion
MyScienceonline.com – Classifying Igneous Rocks	MyScienceonline.com – How Sedimentary Rock Forms	MyScienceonline.com – The Rock Cycle
- Metamorphic Rocks	-Types of Sedimentary Rocks	- Patterns in Rock Cycle

CONCEPT	CONCEPT	CONCEPT
Fossils	The Relative Age of Rocks	Radioactive Dating
STANDARD(S)	STANDARD(S)	STANDARD(S)
. ,		
SC.7.N.1.6, SC.7.E. 6.3, SC.7.E.6.4, LA.7.2.2.3	SC.7.N.3.1, SC.7.E.6.4	SC.7.N.2.1, SC.7.E.6.3, SC.7.E.6.4
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
What Are Fossils?	How Old Are Rock Layers?	What Radioactive Decay?
What Are the Kinds of Fossils?	How Can Rock Layers Change?	What Radioactive Dating?
What Do Fossils Show?	, ,	How Do Scientists Determine Earth's Age?
VOCABULARY	VOCABULARY	VOCABULARY
Fossil, mold, cast, petrified fossil, carbon film, trace	Relative age, absolute age, law of superposition,	Radioactive decay, half-life
fossil, paleontologist, evolution, extinct	extrusion, intrusion, fault, index fossil, unconformity	
	RESOURCES	
Lab Zone –	Lab Zone – Exploring Geologic Time Through Core	Lab Zone –
Inquiry Warm-Up – What's In a Rock?	Samples	Inquiry Warm-Up – How Long Till It's Gone?
Quick Lab – Fossils	Inquiry Warm-Up – Which Layer Is the Oldest?	Quick Lab – The Dating Game
- Sweet Fossils	Quick Lab – How Did It Form?	- Earth Through Geologic Time
 Modeling Trace Fossils 	Teacher Demo –	- How Old Is It?
 Modeling the Fossil Record 	Image Library	
Teacher Demo –	Assess Understanding – How Old Are Rock Layers?	Teacher Demo –
Image Library	Key Concept Summary – How Old Are Rock Layers?	Image Library
Assess Understanding – What Are Fossils?	Review and Reinforce – Understanding Main Ideas	Assess Understanding – What Is Radioactive Decay?
Key Concept Summary – What Are Fossils?	Enrich – The Grandest Canyon of All	Key Concept Summary – What Is Radioactive Decay?
Review and Reinforce – Understanding Main Ideas		Review and Reinforce – Understanding Main Ideas
Enrich – Traces of Tracks		Enrich – A Continuous Process
	Additional Information	
Digital Lesson	Digital Lesson	Digital Lesson
Art in Motion	Art in Motion	Art in Motion
MyScienceonline.com – Fossils	MyScienceonline.com – Ages of Rocks	MyScienceonline.com – Radioactive Decay
- Fossil Types	- Changing Layers	
-Fossil Record		

CONCEPT	CONCEPT	CONCEPT
Drifting Continents	Sea Floor Spreading	The Theory of Plate Tectonics
STANDARD(S)	STANDARD(S)	STANDARD(S)
SC.7.N.1.3, SC.7.N.1.7, SC.7.E.6.4	SC.7.N.2.1, SC.7.E.6.4, SC.7.E.6.5, LA.7.2.2.3	SC.7.E.6.5, LA.7.2.2.3
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
What Was Wegener's Hypothesis About the Continents?	What Are Mid-Ocean Ridges? What Is Sea-Floor Spreading? What Happens at Deep-Ocean Trenches?	What Is the Theory of Plate Tectonics?
VOCABULARY	VOCABULARY	VOCABULARY
Continental drift, Pangaea, fossil	Mid-ocean ridges, sea-floor spreading, deep-ocean trench, subduction	Plate, divergent boundary, convergent boundary, transform boundary, plate tectonics, fault
	RESOURCES	
Lab Zone – Inquiry Warm-Up – How Are Earth's Continents Linked? Build Inquiry - Make Models of Continents Quick Lab – Moving the Continents Teacher Demo – Image Library Assess Understanding – What Was Wegener's Hypothesis About the Continents? Key Concept Summary – What Was Wegener's Hypothesis About the Continents Review and Reinforce – Understanding Main Ideas Enrich – The Curious Case of Mesosaurus	Lab Zone – Modeling Sea-Floor Spreading Build Inquiry – Model of the Ocean Floor Inquiry Warm-Up – What Is the Effect of a Change in Density? Quick Lab – Mid-Ocean Ridges Teacher Demo – Image Library Assess Understanding – What Are Mid-Ocean Ridges? Key Concept Summary – What Are Mid-Ocean Ridges? Review and Reinforce – Understanding Main Ideas Enrich – The Birth of the Himalayas	Lab Zone – Build Inquiry – Continent-Continent Collisions Inquiry Warm-Up – Plate Interactions Quick Lab – Mantle Convection Currents Teacher Demo – Make a Model of Plates Image Library Assess Understanding – What Is the Theory of Plate Tectonics? Key Concept Summary – What Is the Theory of Plate Tectonics? Review and Reinforce – Understanding Main Ideas Enrich – Magnetic Reversals Through the Ages
	Additional Information	
Digital Lesson Art in Motion MyScienceonline.com — Continental Drift	Digital Lesson Art in Motion MyScienceonline.com — Mid-Ocean Ridges - Reversing Poles - Sea-Floor Spreading - Deep-Ocean Trenches	Digital Lesson Art in Motion MyScienceonline.com – Theory of Plate Tectonics - Movement of Plate Tectonics - Plate Tectonics

CONCEPT	CONCEPT	CONCEPT
Volcanoes and Plate Tectonics	Volcanic Eruptions	Volcanic Landforms
STANDARD(S)	STANDARD(S)	STANDARD(S)
SC.7.E.6.5, LA.7.4.2.2	SC.7.N.1.6, SC.7.E.6.5, LA.7.4.2.2	SC.7.E.6.5, LA.7.2.2.3
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
Where Are Volcanoes Found on Earth's Surface?	What Happens When a Volcano Erupts?	What Landforms Do Lava and Ash Create? What Landforms Does Magma Create
VOCABULARY	VOCABULARY	VOCABULARY
Volcano, magma, lava, Ring of Fire, island arc, hot spot	Magma chamber, pipe, vent, lava flow, crater, silica, pyroclastic flow, dormant, extinct	Caldera, cinder cone, composite volcano, shield volcano, volcanic neck, dike, sill, batholith
	RESOURCES	
Lab Zone – Inquiry Warm-Up – Moving Volcanoes Quick Lab – Where Are Volcanoes Found on Earth's Surface? Teacher Demo – Interpreting Maps Image Library Assess Understanding – Where Are Volcanoes Found on Earth's Surface? Key Concept Summary – Where Are Volcanoes Found on Earth's Surface? Review and Reinforce – Understanding Main Ideas Enrich – Volcanoes and Plates	Lab Zone – Gelatin Volcanoes Inquiry Warm-Up – How Fast Do Liquids Flow? Quick Lab – Volcanoes Stages Teacher Demo – Explore Violent Eruptions Image Library Assess Understanding – What Happens When a Volcano Erupts? Key Concept Summary – What Happens When a Volcano Erupts? Review and Reinforce – Understanding Main Ideas Enrich – Pegmatite's	Lab Zone — Inquiry Warm-Up — How Do Volcanoes Change Land? Build Inquiry — Make a Model of Composite Volcanoes Quick Lab — Volcanic Landforms — How Can Volcanic Activity Change Earth's Surface? Teacher Demo — Image Library Assess Understanding — What Landforms Do Lava and Ash Create? Key Concept Summary — What Landforms Do Lava and Ash Create? Review and Reinforce — Understanding Main Ideas Enrich — Modeling a Lava Plateau
	Additional Information	
Digital Lesson Art in Motion MyScienceonline.com – Volcanoes and Plate Tectonics	Digital Lesson Art in Motion MyScienceonline.com — Inside a Volcano - Monitoring Volcanoes	Digital Lesson Art in Motion MyScienceonline.com — Volcanic Landforms - Landforms from Magma

CONCEPT	CONCEPT	CONCEPT
Forces in Earth's Crust	Earthquakes and Seismic Waves	
STANDARD(S)	STANDARD(S)	STANDARD(S)
SC.7.E.6.5, LA.7.4.2.2	SC.7.E.6.5, LA.7.2.2.3, MA.6.A.3.6	SC.7.E.6.5, SC.7.N.1.5, LA.7.4.2.2
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
How Does Stress Change Earth' Crust?	What Are Seismic Waves?	How Do Seismographs Work?
How Do Fault Form?	How Are Earthquakes Measured?	What Patterns Do Seismographic Data Reveal?
How Does Plate Movement Create New Landforms?	How Is an Epicenter Located?	
VOCABULARY	VOCABULARY	VOCABULARY
Stress, tension, compression, shearing, normal fault,	Earthquake, focus, epicenter, P wave, S wave, surface	Seismograph
reverse fault, strike-slip fault, plateau	wave, seismograph, Modified Mercalli scale, magnitude,	
	Richter scale, moment magnitude scale	
	RESOURCES	
Lab Zone –	Lab Zone –	Lab Zone –
Inquiry Warm-Up – How Does Stress Affect Earth's	Inquiry Warm-Up – How Do Seismic Waves Travel	Inquiry Warm-Up – How Can Seismic Waves Be
Crust?	Through Earth?	Detected?
Quick Lab – Effect of Stress	Quick Lab – Properties of Seismic Waves	Quick Lab – Design a Seismograph
- Modeling Stress	- Measuring Earthquakes	- Earthquake Patterns
Teacher Demo –	- Finding the Epicenter	Teacher Demo –
Image Library	Teacher Demo –	Image Library
Assess Understanding – How Does Stress Change	Image Library	Assess Understanding – How Do Seismographs Work?
Earth's Crust	Assess Understanding – What Are Seismic Waves?	Key Concept Summary – How Do Seismographs Work?
Key Concept Summary – How Does Stress Change Earth's Crust	Key Concept Summary – What Are Seismic Waves? Review and Reinforce – Understanding Main Ideas	Review and Reinforce – Understanding Main Ideas
Review and Reinforce – Understanding Main Ideas	Enrich – Comparing the Richter and Moment	Enrich – Earthquakes Probability
Enrich – Evidence of Movement Along Faults	Magnitude Scales	
Ellich – Evidence of Woverhelit Along Faults	Additional Information	
	Digital Lesson	Digital Lesson
Digital Lesson	Art in Motion	Art in Motion
Art in Motion	MyScienceonline.com – Seismic Waves	MyScienceonline.com – Seismographs
MyScienceonline.com - Stress	- Measuring Earthquakes	- Earthquake Risk
- Faults	- Epicenter	·
- Plate Movement and Land		

CONCEPT	CONCEPT	CONCEPT	
Conserving Land and Soil	Air Pollution and Solutions	Water Pollution and Solution	
-			
STANDARD(S)	STANDARD(S)	STANDARD(S)	
SC.7.E.6.6, LA.7.2.2.3	SC.7.E.6.6, LA.7.2.2.3	SC.7.E.6.6, LA.7.2.2.3	
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	
How Do People Use Land?	What Causes Damage to the Ozone Layer?	Why Is Fresh Water a Limited Resource?	
What Are the Effect of Deforestation and Urbanization?		What Are the Major Sources of Water Pollution?	
		How Can Water Pollution Be Reduced?	
VOCABULARY	VOCABULARY	VOCABULARY	
Natural resource, litter, topsoil, subsoil, bedrock,	Ozone layer, chlorofluorocarbons, acid rain	Pesticide, sewage, sediment	
erosion, nutrient depletion, fertilizer, desertification,			
drought, land reclamation, deforestation, urbanization	DECOURCES		
	RESOURCES	Lab Zama	
	Lab Zone – Model the Effects of CFCs on Ozone	Lab Zone –	
Lab Zone –	Inquiry Warm-Up – Analyzing Ozone Quick Lab – It's In the Air	Inquiry Warm-Up – How Does the Water Change? Quick Lab – Where's the Water?	
Inquiry Warm-Up – How Does Mining Affect the Land?	Teacher Demo –	- Cleaning Up Oil Spills	
Quick Lab – Land Use		Teacher Demo –	
 Modeling Soil Conservation Natural Resources 	Image Library Assess Understanding – What Causes Outdoor and	Image Library	
Teacher Demo – Observe Soil Layers	Indoor Air Pollution?	Assess Understanding – Why Is Fresh Water a Limited	
Image Library	Key Concept Summary – What Causes Outdoor and	Resource?	
Assess Understanding – How Do People Use Land?	Indoor Air Pollution?	Key Concept Summary – Why Is Fresh Water a Limited	
Key Concept Summary – How Do People Use Land?	Review and Reinforce – Understanding Main Ideas	Resource?	
Review and Reinforce – Understanding Main Ideas	Enrich – Ozone	Review and Reinforce – Understanding Main Ideas	
Enrich – The Copper Basin		Enrich – Sewage Treatment	
Additional Information			
Digital Lesson	Digital Lesson		
Art in Motion	Art in Motion	Digital Lesson	
MyScienceonline.com – Land Use	MyScienceonline.com - Ozone	Art in Motion	
- Soil Management - Deforestation and Urbanization	- Air Pollution Solution	MyScienceonline.com – Limited Water	
- Deforestation and Orbanization		- Water Pollution Solutions	

CONCEPT	CONCEPT	CONCEPT
Wetland Environments	Heat Flow Inside Earth	
STANDARD(S)	STANDARD(S)	STANDARD(S)
SC.7.E.6.6, LA.7.4.2.2	SC.7.N.1.5, SC.7.E.6.7	
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
What Are Wetlands? Why Are Wetlands Important? What Impact Have Humans Had on the Everglades?	How Do Mantle Convection Currents Affect Earth?	
VOCABULARY	VOCABULARY	VOCABULARY
Wetland	Convection, convection current	
	RESOURCES	
Lab Zone –	Lab Zone –	
Inquiry Warm-Up – Wet or Dry	Inquiry Warm-Up – Heating Things Up	
Quick Lab – Describing Wetlands	Quick Lab – Where Does Heat Flow?	
- A Natural Filter	Teacher Demo –	
- Wetland Environments	Image Library	
Teacher Demo – Modeling Plant Roots in a Wetland	Assess Understanding – How Do Mantle Convection	
Image Library	Currents Affect Earth?	
Assess Understanding – What Are Wetlands?	Key Concept Summary – How Do Mantle Convection	
Key Concept Summary – What Are Wetlands?	Currents Affect Earth?	
Review and Reinforce – Understanding Main Ideas	Review and Reinforce – Understanding Main Ideas	
Enrich – The Shrinking Everglades	Enrich – The Properties of Magma	
	Additional Information	
Digital Lesson	Digital Lesson	
Art in Motion	Art in Motion	
MyScienceonline.com - Wetlands	MyScienceonline.com – Heat Flow in Earth	
- Importance of Wetlands		

COURSE CODE : 2007020	COURSE NAME: PHYSICAL SCIE	COURSE NAME: PHYSICAL SCIENCE	
UNIT TITLE: Physical Science	UNIT ESSENTIAL QUESTION:	UNIT ESSENTIAL QUESTION:	
SEMESTER: 2 Grading Period	HO	ow Does Light Interact With Matter? s Energy Conserved in a Transformation?	
CONCEPT	CONCEPT	CONCEPT	
Waves of the Electromagnetic Spectrum	Reflection and Mirrors	Refraction and Lenses	
STANDARD(S)	STANDARD(S)	STANDARD(S)	
SC.7.P.10.1, SC.7.N.1.3, SC.7.N.1.5, LA.7.2.2	2.3 SC.7.P.10.2, LA.7.2.2.3	SC.7.N.1.6, SC.7.N.1.7, SC.7.P.10.2, MA.6.A.3.6, SC.7.P.10.3	
LESSON ESSENTIAL QUESTIO	N LESSON ESSENTIAL QUES	TION LESSON ESSENTIAL QUESTION	
How Does the Sun's Energy Arrive on Earth How Do Electromagnetic Waves Compare? What Makes Up the Electromagnetic Spectrum VOCABULARY	VOCABULARY	What Factors Affect the Speed of a Wave? VOCABULARY	
Electromagnetic wave, electromagnetic radiatic wavelength, frequency, electromagnetic spectr waves, microwaves, infrared rays, visible light, ultraviolet rays, X-ray, gamma ray			

RESOURCES		
Lab Zone – Observe Infrared	Lab Zone – Find the Focal Point	Lab Zone – Observing Refraction of Light
- Model X-Ray and Other Electromagnetic	Inquiry Warm-Up – How Does Your Reflection Wink?	Inquiry Warm-Up – Can You Make an Image Appear?
Waves	Quick Lab – Observing	Quick Lab – Bent Pencil
Inquiry Warm-Up – How Fast Are Electromagnetic	- Mirror Images	- Looking at Images
Waves?	Teacher Demo – Model Reflection From a Concave	Teacher Demo – See the Penny
Quick Lab – What Is an Electromagnetic Wave Made Of?	Mirror	- Focal Point
- Differences Between Waves	Image Library	Image Library
 Parts of the Electromagnetic Spectrum 	Assess Understanding – What Are the Kinds of	Assess Understanding – What Happens When Light Hits
Teacher Demo –	Reflection?	an Object?
Image Library	Key Concept Summary – What Are the Kinds of	Key Concept Summary – What Happens When Light Hits
Assess Understanding – How Does the Sun's Energy	Reflection?	an Object?
Arrive on Earth?		
Key Concept Summary – How Does the Sun's Energy	Review and Reinforce – Understanding Main Ideas	Review and Reinforce – Understanding Main Ideas
Arrive on Earth?	Enrich – Ear on the Sky	Enrich – Light Benders
Enrich – Motion Detectors	Additional Information	
Digital Lesson		
שוצונמו בכסטוו	Digital Lesson	
Art in Motion	Digital Lesson Art in Motion	Digital Lesson
Art in Motion	Art in Motion	Digital Lesson Art in Motion
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Art in Motion	Art in Motion MyScienceonline.com – Reflection	Art in Motion
Art in Motion	Art in Motion MyScienceonline.com – Reflection	Art in Motion MyScienceonline.com – Refraction
Art in Motion	Art in Motion MyScienceonline.com – Reflection	Art in Motion MyScienceonline.com – Refraction - Lenses
Art in Motion	Art in Motion MyScienceonline.com – Reflection	Art in Motion MyScienceonline.com – Refraction - Lenses
Art in Motion	Art in Motion MyScienceonline.com – Reflection	Art in Motion MyScienceonline.com – Refraction - Lenses
Art in Motion	Art in Motion MyScienceonline.com – Reflection	Art in Motion MyScienceonline.com – Refraction - Lenses
Art in Motion	Art in Motion MyScienceonline.com – Reflection	Art in Motion MyScienceonline.com – Refraction - Lenses
Art in Motion	Art in Motion MyScienceonline.com – Reflection	Art in Motion MyScienceonline.com – Refraction - Lenses
Art in Motion	Art in Motion MyScienceonline.com – Reflection	Art in Motion MyScienceonline.com – Refraction - Lenses
Art in Motion	Art in Motion MyScienceonline.com – Reflection	Art in Motion MyScienceonline.com – Refraction - Lenses
Art in Motion	Art in Motion MyScienceonline.com – Reflection	Art in Motion MyScienceonline.com – Refraction - Lenses
Art in Motion	Art in Motion MyScienceonline.com – Reflection	Art in Motion MyScienceonline.com – Refraction - Lenses
Art in Motion	Art in Motion MyScienceonline.com – Reflection	Art in Motion MyScienceonline.com – Refraction - Lenses

CONCEPT	CONCEPT	CONCEPT
Energy Transformations and Conservation	Temperature, Thermal Energy, and Heat	The Transfer of Heat
STANDARD(S)	STANDARD(S)	STANDARD(S)
SC.7.N.3.2, SC.7.P.11.1, SC.7.P.11.2, SC.7.N.3.1,	SC.7.P.11.4, MA.7.6.S.6.2, LA.6.A.3.2	SC.7.P.11.4, LA.7.2.2.3
SC.7.P.11.3, LA.7.2.2.3		
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
How Does Heat Affect a System?	What Determines the Temperature of an Object?	How Is Heat Transferred?
What Forms of Energy Are Related to Particles?	How Is Thermal Energy Different from Temperature?	
How Is Energy Conserved During a Transformation?		
VOCABULARY	VOCABULARY	VOCABULARY
Energy, state, solid, liquid, gas, freezing point, boil,	Temperature, Fahrenheit scale, Celsius scale, Kelvin	Convection, Convection Current, radiation, conduction
boiling point, potential energy, kinetic energy, energy	scale, absolute zero, heat	
transformation, law of conservation of energy	DE0011D050	
	RESOURCES	1
Lab Zone – Inquiry Warm-Up – What Would Make a Card Jump?	Lab Zone – Build Your Own Thermometer Inquiry Warm-Up – How Cold Is the Water?	Lab Zone – Inquiry Warm-Up – What Does It Mean to Heat Up?
Quick Lab – State of Matter	Quick Lab – Temperature and Thermal Energy	Quick Lab – Visualizing Convection Currents
- Sources of Energy	Teacher Demo –	Teacher Demo –
- Pendulum Swing	Image Library	Image Library
Teacher Demo –	Assess Understanding – What Determine the	Assess Understanding – How Is Heat Transferred?
Image Library	Temperature of an Object?	Key Concept Summary – How Is Heat Transferred?
Assess Understanding – How Does Heat Affect a System?	Key Concept Summary – What Determine the Temperature of an Object?	Review and Reinforce – Understanding Main Ideas Enrich – Radiating Heat
Key Concept Summary – How Does Heat Affect a	Review and Reinforce – Understanding Main Ideas	Linion – Natiating Heat
System?	Enrich – Converting Temperatures	
Review and Reinforce – Understanding Main Ideas		
Enrich – Orbits, Ellipses, and Energy		
	Additional Information	·
Digital Lesson	Digital Lesson	Digital Lesson
Art in Motion	Art in Motion	Art in Motion
MyScienceonline.com – Energy Transformations	MyScienceonline.com – Temperature Scales	MyScienceonline.com – The Transfer of Heat
- Forms of Energy - Energy Conservation	- Thermal Energy	
- Lifetgy Conservation		
	I	1

COURSE CODE : 2007	020	COURSE NAME: LIFE SCIENCE	
UNIT TITLE: Life Scien	nce	UNIT ESSENTIAL QUESTION:	
SEMESTER: 2	Grading Period: 4	How Do Life Forms Change Over Time? Why Don't Offspring Always Look Like Their Parents? How Can Genetic Information Be Used? How Do Living Their Staffect One Another?	
CON	CEPT	CONCEPT	CONCEPT
Evidence of Evolution		Darwin's Theory	Biodiversity and Extinction
STAND	ARD(S)	STANDARD(S)	STANDARD(S)
SC.7.L.15.1, LA.7.4.2.2, SC	C.7.N.1.7	SC.7.N.3.1, SC.7.L.15.2, LA.7.4.2.2, LA.7.2.2.5, MA.6.S.6.2	SC.7.L.15.2, LA.7.2.2.3, SC.7.L.15.3
LESSON ESSEN	ITIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
What Is Evolution What Evidence Support Evo	lution	What Was Darwin's Hypothesis? What Is Natural Selection?	How Do New Species Form? What Factors Affect Biodiversity Why Do Species Go Extinct?
VOCAE	BULARY	VOCABULARY	VOCABULARY
Evolution, gene, homologous st	tructures	Adaptation, scientific theory, trait, natural selection, variation	Biodiversity, extinction, endangered species, threatened species

RESOURCES		
Lab Zone – Observe Similar Species Inquiry Warm-Up –How Can You Classify a Species?	Lab Zone – Interpret Scientific Drawings - Observe Favorable Traits	Lab Zone – Inquiry Warm-Up – How Much Variety Is There?
Quick Lab – Understanding Evolution	- Nature At Work	Quick Lab –Large-scale isolation
- Finding Proof Teacher Demo –	Inquiry Warm-Up – How Do Living Things Vary? Quick Lab – Bird Beak Adaptations	- Grocery Gene Pool - Disappearing Act
Image Library	Teacher Demo –	Teacher Demo –
Assess Understanding – What is Evolution	Image Library	Image Library
Key Concept Summary – What is Evolution	Assess Understanding – What Was Darwin's	Assess Understanding – What Is Evolution?
Review and Reinforce – Understanding Main Ideas	Hypothesis?	Key Concept Summary – What Is Evolution?
Enrich – Dating the Fossil Record	Key Concept Summary – What Was Darwin's	Review and Reinforce – Understanding Main Ideas
	Hypothesis?	Enrich -Dating the Fossil Record
	Review and Reinforce – Understanding Main Ideas	
	Enrich – Two Theories of Evolution	
	Additional Information	
Digital Lesson	Digital Lesson	Digital Lesson
Art in Motion	Art in Motion	Art in Motion
<u>MyScienceonline.com</u> - Evolution	MyScienceonline.com – Darwin's Hypothesis - Natural Selection	<u>MyScienceonline.com</u> – Species Formation - Factors Affecting Biodiversity
	Natural Scientifi	Tactors Arrecting blodiversity

CONCEPT	CONCEPT	CONCEPT
The Genetic Code	What Is Heredity?	Probability and Heredity
OTANDADD(O)	OTANDADD(O)	OTANDADD(O)
STANDARD(S)	STANDARD(S)	STANDARD(S)
SC.7.L.16.1, LA.7.2.2.3	SC.7.L.16.1, SC.7.N.2.1, LA.7.2.2.3	SC.7.L.16.2, MA.6.A.3.6
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
What Forms the Genetic Code?	What Did Mendel Observe?	How Is Probability Related to Inheritance?
How Does DNA Cope Itself?	How Do Alleles Affect Inheritance?	What Are Phenotype and Genotype?
VOCABULARY	VOCABULARY	VOCABULARY
Nitrogen bases, DNA replication	Heredity, genetics, fertilization, purebred, allele,	Probability, Punnett square, pedigree, phenotype,
	dominant allele, recessive allele, hybrid	genotype, homozygous, heterozygous
	RESOURCES	
Lab Zone – Guilty or Innocent? Inquiry Warm-Up – Can You Crack the Code? Quick Lab – Modeling the Genetic Code Teacher Demo – Unique Sequences - Modeling DNA Replication Image Library Assess Understanding – Key Concept Summary – Review and Reinforce – Understanding Main Ideas Enrich – Paving the Way for Watson and Crick	Lab Zone – Observing Crosses In Fruit Flies Inquiry Warm-Up – What Does the Father Look Like? Quick Lab – Observing Pistils and Stamens - Inferring the Parent Generation Teacher Demo – Image Library Assess Understanding – What Did Mendel Observe? Key Concept Summary – What Did Mendel Observe? Review and Reinforce – Understanding Main Ideas Enrich – The Test Cross	Lab Zone – Inquiry Warm-Up – What Is the Chance? Quick Lab – Coin Crosses - Make the Right Call Teacher Demo – Observe Crosses in Tobacco Plants Image Library Assess Understanding –How Is Probability Related to Inheritance? Key Concept Summary – How Is Probability Related to Inheritance? Review and Reinforce – Understanding Main Ideas Enrich – Genetic Crosses With Two Traits
	Additional Information	
Digital Lesson Art in Motion MyScienceonline.com — Genetic Code - DNA Replication	Digital Lesson Art in Motion MyScienceonline.com – Mendel's Observations - Alleles and Inheritance	Digital Lesson Art in Motion MyScienceonline.com — Probability and Inheritance - Phenotype and Genotype

CONCEPT	CONCEPT	CONCEPT
Chromosomes and Inheritance	Human Inheritance	Human Genetic Disorders
STANDARD(S)	STANDARD(S)	STANDARD(S)
SC.7.L.16.1, SC.7.N.1.5, SC.7.N.1.6, SC.7.L.16.3,	SC.7.L.6.1, SC.7.L.2, SC.7.L.16.3	SC.7.L.16.2, LA.7.4.2.2, HE.6.C.1.4
LA.7.2.2.3		
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
How Are Chromosomes, Genes, and Inheritance	What Some Patterns of Human Inheritance?	How Are Genetic Disorders Inherited In Human?
Related?	What Are the Functions of the Sex Chromosomes?	How Are Genetic Disorders Traced, Diagnosed, and
What Happens During Meiosis?		Treated?
How Do Sexual and Asexual Reproduction Compare?		
VOCABULARY	VOCABULARY	VOCABULARY
Meiosis	Sex chromosomes, sex-linked gene, carrier	Genetic disorder, pedigree, karyotype
	RESOURCES	
Lab Zone –	Lab Zone – How Are Genes on the Sex Chromosomes	Lab Zone –
Inquiry Warm-Up – Which Chromosome Is Which?	inherited?	Inquiry Warm-Up – How Many Chromosomes?
Quick Lab – Chromosomes and Inheritance	Inquiry Warm-Up – How Tall Is Tall?	Quick Lab – What Went Wrong?
- Modeling Meiosis	Quick Lab – The Eyes Have It	- Family Puzzle
- Types of Reproduction	Teacher Demo –	Teacher Demo –
Teacher Demo –	Image Library	Image Library
Image Library	Assess Understanding – What Are Some Patterns of	Assess Understanding – How Are Genetic Disorders
Assess Understanding – How Are Chromosomes, Genes,	Human Inheritance?	Inherited in Human
and Inheritance Related?	Key Concept Summary – What Are Some Patterns of	Key Concept Summary – How Are Genetic Disorders
Key Concept Summary – How Are Chromosomes, Genes,	Human Inheritance?	Inherited in Human
and Inheritance Related?	Review and Reinforce – Understanding Main Ideas	Review and Reinforce – Understanding Main Ideas
Review and Reinforce – Understanding Main Ideas	Enrich – Sex-Linked Genes	Enrich – Sickle-Cell Allele and Malaria
Enrich – A Model of Meiosis	A 1 11/2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Additional Information	
Digital Lesson	Digital Lesson	Digital Lesson
Art in Motion	Art in Motion	Art in Motion
MyScienceonline.com – Chromosomes Inheritance - Meiosis	MyScienceonline.com – Human Inheritance Patterns	MyScienceonline.com – Inherited Genetic Disorders
- ivieiosis	- Sex Chromosomes	- Studying Genetic Disorders

CONCEPT	CONCEPT	CONCEPT
Advances in Genetics	Using Genetic Information	Living Things and the Environment
STANDARD(S)	STANDARD(S)	STANDARD(S)
SC.7.L.16.4, MA.6.A.3.6	SC.7.N.2.1, SC.7.L.16.4, LA.7.2.2.3	SC.7.L.17.1, SC.7.L.17.2, SC.7.L.17.3, LA.7.4.2.2
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION
How Can Organisms Be Produced With Desired Traits?	What Some Uses of Genetic Information	What Does an Organism Get From Its Environment?
What Is the Impact of Biotechnology?		What Are the Two Parts of an Organism's Habitat? How Is an Ecosystem Organized?
VOCABULARY	VOCABULARY	VOCABULARY
Clone, genetic engineering, gene therapy, selective	Genome, ethics	Organism, habitat, biotic factor, species, population,
breeding, hybridization, inbreeding, biotechnology		community, ecosystem, ecology
	RESOURCES	
Lab Zone – Apply Concepts of Hybridization	Lab Zone –	Lab Zone – World in a Bottle
Inquiry Warm-Up – What Do Fingerprints Reveal?	Inquiry Warm-Up – Using Genetic Information	Inquiry Warm-Up – What in the Scene?
Quick Lab – Selective Breeding	Quick Lab – Extraction in Action	Quick Lab – Organisms and Their Habitats
- Impact of Biotechnology	Teacher Demo –	- Organizing an Ecosystem
Teacher Demo –	Image Library	Teacher Demo – Observing Soil Components
Image Library	Assess Understanding – What Are Some User of Genetic	Image Library
Assess Understanding – How Can Organisms Be	Information	Assess Understanding – What Does an Organism
Produced With Desired Traits?	Key Concept Summary –What Are Some User of Genetic	Get From Its Environment
Key Concept Summary – How Can Organisms Be	Information	Key Concept Summary – What Does an Organism
Produced With Desired Traits?	Review and Reinforce – Understanding Main Ideas	Get From Its Environment
Review and Reinforce – Understanding Main Ideas	Enrich – The Genographic Project	Review and Reinforce – Understanding Main Ideas
Enrich – A Closer Look at Gene Therapy for Cystic Fibrosis		Enrich – Biotic Factors in the Ecosystem
1.5.55.6	Additional Information	
Digital Lesson	Digital Lesson	Digital Lesson
Art in Motion	Art in Motion	Art in Motion
MyScienceonline.com – Advances in Genetics	MyScienceonline.com – Using Genetic Information	MyScienceonline.com - Habitat
		- Biotic and Abiotic Factors
CONCEPT	CONCEPT	CONCEPT
Energy Flow in Ecosystems	Interactions Among Living Things	Populations
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STANDARD(S)	STANDARD(S)	STANDARD(S)	
SC.7.N.3.2, SC.7.L.17.1, LA.7.4.2.2.3	SC.7.L.17.2, MA.7.A.3.6, LA.7.2.2.3	SC.7.L.17.3, LA.7.2.2.3	
LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	LESSON ESSENTIAL QUESTION	
What Are the Energy Roles in an Ecosystem?	How Do Adaptations Help an Organism Survive?	How Do Populations Change in Size?	
How Does Energy Move Through an Ecosystem?	What Are Competition and Predation?	What Factors Limit Population Growth?	
	What Are the Three Types of Symbiosis?		
VOCABULARY	VOCABULARY	VOCABULARY	
Producer, consumer, herbivore, carnivore, omnivore,	Natural selection, adaptation, niche, competition,	Birth rate, death rate, immigration, emigration,	
scavenger, decomposer, food chain, food web, energy	predation, predator, prey, symbiosis, mutualism,	population density, limiting factor, carrying capacity	
pyramid	commensalism, parasitism, parasite, host		
	RESOURCES		
Lab Zone – Identify Available Energy	Lab Zone –	Lab Zone – Calculating Growth Rate	
- Ecosystem Food Chains	Inquiry Warm-Up – Can you hide a butterfly?	- Growing and Shrinking	
Inquiry Warm-Up – Where Did Your Dinner Come From?	Quick Lab – Adaptations for Survival	Inquiry Warm-Up – Populations	
Quick Lab – Observing Decomposition	- Types of Symbiosis	Quick Lab – Elbow Room	
Teacher Demo –	Teacher Demo –	Teacher Demo –	
Image Library	Image Library	Image Library	
Assess Understanding – What Are the Energy Roles in	Assess Understanding – How Does Adaptations Help an	Assess Understanding – How Do Populations Change	
Ecosystems?	Organism Survive	In Size?	
Key Concept Summary – What Are the Energy Roles in	Key Concept Summary – How Does Adaptations Help an	Key Concept Summary – How Do Populations Change	
Ecosystems?	Organism Survive	In Size?	
Review and Reinforce – Understanding Main Ideas	Review and Reinforce – Understanding Main Ideas	Review and Reinforce – Understanding Main Ideas	
Enrich – Food Webs in the Ocean	Enrich – Analyzing Interactions Among Organisms	Enrich – Population Growth	
Additional Information			
Digital Lesson	Digital Lesson	Digital Lesson	
Art in Motion	Art in Motion	Art in Motion	
MyScienceonline.com – Energy Roles in Ecosystems	MyScienceonline.com – Adaptation and Niche	MyScienceonline.com – Population Size	
	- Competition and Predation	- Limiting Factors	