Houston County Schools 4th Grade AMSTI Science Pacing Guide

First Semester Aug. 6-Dec. 17 82 Days	Second Semester Jan. 4-May 26 92 Days
Module (Topic) ALCOS or NSS Minimum Days of Instruction/Assessment Mobymax Alignment Lessons	Module (Topic) ALCOS or NSS Minimum Days of Instruction/Assessment Mobymax Alignment Lessons
Energy and Waves (Energy Works) Energy Sources Everywhere: Lesson 1 Investigation A/B: Pre-Unit Assessment: Where Do You Get Your Energy? 2 1 Class Period (Based on 30 minutes) Energy and Waves (Energy Works) Stored and Motion Energy: Lesson 2 Investigation A/B/C: What Are Stored and Motion Energy? How Can I Change the Energy in a Table Tennis Ball? What Happens When Objects Collide? 1, 2, 3 3 Class Periods (Based on 30 minutes) Forces and Motion	 Water and Landforms (Land and Water) Lesson 1-Pre-Unit Assessment: Thinking about Land and Water 12, 13, 14, 15, 16, 17 **See AMSTI suggested timeline Water and Landforms (Land and Water) Lesson 2-The Water Cycle 12, 13, 14, 15, 16, 17 Earth Science: The Water cycle **See AMSTI suggested timeline Water and Landforms (Land and Water) Lesson 3-Modeling Rain on Land 12, 13, 14, 15, 16, 17 Earth Science: Earth's Water **See AMSTI suggested timeline
Energy and Waves (Energy Works) Energy Transfers and Transformations: Lesson 3 Investigation B: How Is the Sun's Energy Transferred? 2 1 Class Period (Based on 30 minutes) Forces and Motion Electric Circuits Lessons 1 & 2 2, 4 Electricity	Water and Landforms (Land and Water) Lesson 4-Investigating Streams 12, 13, 14, 15, 16, 17 Earth Science: Earth's Changing Surface **See AMSTI suggested timeline Water and Landforms (Land and Water) Lesson 5-Examining Earth Materials 12, 13, 14, 15, 16, 17 Earth Science: Earth's Changing Surface **See AMSTI suggested timeline
Energy and Waves (Energy Works) Energy Transfers and Transformations: Lesson 3 Investigation B: How Do You Build an Electric Circuit? 2 2 Class Periods (Based on 30 minutes) Forces and Motion Energy and Waves (Energy Works)	Water and Landforms (Land and Water) Lesson 6-Where Does the Water go? Looking Around at Ground Water Runoff 12, 13, 14, 15, 16, 17 Earth Science: Earth's Changing Surface **See AMSTI suggested timeline Water and Landforms (Land and Water) Lesson 7-Where Does the Soil Go? Looking at Erosion and Deposition

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Stored and Motion Energy: Lesson 3 Investigation C: How Can We Use Circuits to Investigate Energy? 3, 4	12, 13, 14, 15, 16, 17 Earth Science: Earth's Changing Surface **See AMSTI suggested timeline
3 Class Periods (Based on 30 minutes) Forces and Motion	Water and Landforms (Land and Water) Lesson 8-Bird's Eye View: Looking at the Parts of a Stream
Energy and Waves (Energy Works) Energy Transfers and Transformations: Lesson 3 Investigation D: What Have You Learned About Energy?	12, 13, 14, 15, 16, 17 Earth Science: Earth's Water **See AMSTI suggested timeline
3 3 Class Period (Based on 30 minutes) Forces and Motion	Water and Landforms (Land and Water) Lesson 9-When Streams Join: Modeling Tributaries 12, 13, 14, 15, 16, 17
Energy and Waves (Energy Works) Energy Transfers and Transformations: Lesson 3 Investigation D: What Have You Learned	Earth Science: Earth's Changing Surface **See AMSTI suggested timeline
About Energy? 2, 4 1 Class Period (Based on 30 minutes)	Water and Landforms (Land and Water) Lesson 10-Rushing Rivers: Exploring Flow 12, 13, 14, 15, 16, 17
Forces and Motion	Earth Science: Earth's Changing Surface **See AMSTI suggested timeline
Energy and Waves (Energy Works) Energy Moves in Waves: Lesson 4 Investigation A/B/C/D:	Water and Landforms (Land and Water) Lesson 11-Hills and Rocks: How Nature Changes
How Can You Use Waves to Send Messages? What Do You Know About Waves? How Can You Create Waves?	the Direction and Flow of Water 12, 13, 14, 15, 16, 17 Earth Science: Earth's Changing Surface
How Does Energy Move in Waves? 6, 7 4 Class Period (Based on 30 minutes)	**See AMSTI suggested timeline Water and Landforms (Land and Water)
Forces and Motion	Lesson 12-Dams: How Humans Change the Direction and Flow of Water
****AMSTI Lesson "It's Dark in Here**** 8 Light	12, 13, 14, 15, 16, 17 Earth Science: Earth's Changing Surface **See AMSTI suggested timeline
Energy and Waves (Energy Works) Recycling Energy: Lesson 5 Investigation A/B/C:	Water and Landforms (Land and Water) Lesson 13-Exploring Slope 12, 13, 14, 15, 16, 17
What Are Types of Alternative Energy? How Does a Wind Turbine Generate Energy? What Can I Build to Demonstrate Water	Earth Science: Earth's Changing Surface **See AMSTI suggested timeline
Energy? 5	Water and Landforms (Land and Water) Lesson 14-Plants: Protecting Slope Land from
3 Class Period (Based on 30 minutes) Natural Resources	Erosion 12, 13, 14, 15, 16, 17 Earth Science: Earth's Changing Surface **See AMSTI suggested timeline

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Energy and Waves (Energy Works) My Energy Experiment: Lesson 6 Investigation A/B/C: How Can I Design an Experiment About Energy? Does My Experiment Support My Prediction? How Can I Communicate What I Have Learned About Energy? 1-8 6 Class Period (Based on 30 minutes)	 Water and Landforms (Land and Water) Lesson 15-Planning our Homesites: Designing and Building a Landscape 12, 13, 14, 15, 16, 17 Earth Science: Earth's Changing Surface **See AMSTI suggested timeline Water and Landforms (Land and Water) Lesson 16-Protecting Our Homesites: Testing the Interactions of Land and Water Reading Selection Fallingwater:Wright On! 12, 13, 14, 15, 16, 17 Earth Science: Earth's Changing Surface **See AMSTI suggested timeline
	Water and Landforms (Land and Water) Lesson 17-Post-Assessment 12, 13, 14, 15, 16, 17 **See AMSTI suggested timeline
	Animal Studies Lessons 1-Pre-Unit Assessment: Thinking About Animals and Their Homes 9, 11 Life Science: The Building Blocks of Life **See AMSTI suggested timeline
	Animal Studies Lessons 2-Inviting Animals Into the Classroom 9, 11 Life Science: The Building Blocks of Life **See AMSTI suggested timeline
	Animal Studies Lessons 3-Living in Water:Dwarf African Frogs 9, 11 Life Science: The Building Blocks of Life **See AMSTI suggested timeline
	Animal Studies Lessons 4-Observing Frogs More Closely 9, 11 Life Science: Classifying Organisms **See AMSTI suggested timeline
	Animal Studies Lessons 5-Living Where Land and Water Meet: Fiddler Crabs

9, 11 Life Science: Classifying Organisms Life Science: Animal Adaptations **See AMSTI suggested timeline
Animal Studies Lessons 6-Observing Crabs More CLosely 9, 11 Life Science: Classifying Organisms Life Science: Animal Adaptations **See AMSTI suggested timeline
Animal Studies Lessons 7-Observing the Behavior of Frogs and Crabs 9, 11 Life Science: Classifying Organisms Life Science: Animal Adaptations **See AMSTI suggested timeline
Animal Studies Lessons 8-Living on Land: Millipedes 9, 11 Life Science: Animal Adaptations **See AMSTI suggested timeline
Animal Studies Lessons 9-Observing Millipedes More Closely 9, 11 Life Science: Classifying Organisms Life Science: Animal Adaptations **See AMSTI suggested timeline
Animal Studies Lessons 10-How Do Animals Respond to a Change in Habitat? 9, 11 Life Science: Changes in Ecosystems **See AMSTI suggested timeline
Animal Studies Lessons 11-Observing Humans Closely 9, 11 Life Science: The Human Body **See AMSTI suggested timeline
Animal Studies Lessons 12-Researching Animal Behavior 9, 11 Life Science: Animal Adaptations

**See AMSTI suggested timeline
Animal Studies Lessons 13-Part 1: What Makes an Animal Special? 9, 11 Life Science: Classifying Organisms Life Science: Animal Adaptations **See AMSTI suggested timeline
Animal Studies Lessons 14-Part 2: What Makes an Animal Special? 9, 11 Life Science: Classifying Organisms Life Science: Animal Adaptations **See AMSTI suggested timeline
Animal Studies Lessons 15-There's No Place Like Home 9, 11 Life Science: Classifying Organisms Life Science: Animal Adaptations **See AMSTI suggested timeline
Animal Studies Lessons 16-Presenting Our Research 9, 11 **See AMSTI suggested timeline
Animal Studies Lessons 17-Post Unit Assessment 9, 11 **See AMSTI suggested timeline

Cycle	Pick Up Date	Return Date
1	8/17/21	10/19/21
2	10/19/21	1/10/22
3	1/10/22	3/15/22
4	3/15/22	5/23/22