

Houston County Schools
5th Grade AMSTI Science Pacing Guide

First Semester Aug. 6-Dec. 17 82 Days Module (Topic) ALCOS or NSS Minimum Days of Instruction/Assessment Mobymax Alignment Lessons	Second Semester Jan. 4-May 26 92 Days Module (Topic) ALCOS or NSS Minimum Days of Instruction/Assessment Mobymax Alignment Lessons
Dynamics of Ecosystems (Ecosystems) Lesson 1- Pre-Unit Assessment: Thinking about Ecosystems 8, 9, 10, 11, 14, 15, 16, 17 1-2 Class Periods (Based on 30 minutes) Life Science: Ecosystems	Matter and Interactions (Mixtures and Solutions) Separation of Mixtures-Lesson 1.1: Making and Separating Mixtures 1, 2 2 Class Periods (Based on 30 minutes) State Changes, Mixtures, and Solutions
Dynamics of Ecosystems (Ecosystems) Lesson 2-Setting up the Terrarium 8, 10, 11, 1-2 Class Periods (Based on 30 minutes) Life Science: Ecosystems Life Science: Changes in Ecosystems	Matter and Interactions (Mixtures and Solutions) Separation of Mixtures-Lesson 1.2: Separating a Salt Solution 1, 2 3 Class Periods (Based on 30 minutes) State Changes, Mixtures, and Solutions
Dynamics of Ecosystems (Ecosystems) Lesson 3-Setting Up the Aquarium 8, 9, 10, 11 1-2 Class Periods (Based on 30 minutes) Life Science: Biomes: Water Biomes	Matter and Interactions (Mixtures and Solutions) Separation of Mixtures-Lesson 1.3: Separating a Dry Mixture 1, 2 3 Class Periods (Based on 30 minutes) State Changes, Mixtures, and Solutions
Dynamics of Ecosystems (Ecosystems) Lesson 4-Adding Animals to the Aquarium 8, 10, 11 2-3 Class Periods (Based on 30 minutes) Life Science: Biomes: Water Biomes	Matter and Interactions (Mixtures and Solutions) Separation of Mixtures-Lesson 1.4: Outdoor Solutions 1, 2 4 Class Periods (Based on 30 minutes) State Changes, Mixtures, and Solutions
Dynamics of Ecosystems (Ecosystems) Lesson 5-Observing the Completed Aquarium 8, 10, 11 1 Class Period (Based on 30 minutes) Life Science: Biomes: Water Biomes	Matter and Interactions (Mixtures and Solutions) Developing Models-Lesson 2.1: Black Boxes 1, 2 3 Class Periods (Based on 30 minutes)
Dynamics of Ecosystems (Ecosystems) Lesson 6-Adding Animals to the Terrarium 8, 10, 11 1-2 Class Periods (Based on 30 minutes) Life Science: Ecosystems Life Science: Changes in Ecosystems	Matter and Interactions (Mixtures and Solutions) Developing Models-Lesson 2.2: Drought Stopper 1, 2 2 Class Periods (Based on 30 minutes)
	Matter and Interactions (Mixtures and Solutions) Developing Models-Lesson 2.3: Models for

Houston County Schools
5th Grade AMSTI Science Pacing Guide

<p>Dynamics of Ecosystems (Ecosystems) Lesson 7-Joining the Terrarium and the Aquarium 8, 10, 11, 14 2-3 Class Periods (Based on 30 minutes) Life Science: Ecosystems Life Science: Changes in Ecosystems Life Science: Biomes: Water Biomes</p>	<p>Change in Properties 1, 2 5 Class Periods (Based on 30 minutes) Physical and Chemical Changes</p>
<p>Dynamics of Ecosystems (Ecosystems) Lesson 8-Upsetting the Stability 11, 14, 16 2-3 Class Periods (Based on 30 minutes) Life Science: Changes in Species: Heredity and Adaptations</p>	<p>Matter and Interactions (Mixtures and Solutions) Concentration-Lesson 3.1: Soft-Drink Recipes 1, 2, 5 2 Class Periods (Based on 30 minutes) State Changes, Mixtures, and Solutions</p>
<p>Dynamics of Ecosystems (Ecosystems) Lesson 9-Reporting Pollutants 11, 14, 16 2-3 Class Periods (Based on 30 minutes) Life Science: Changes in Ecosystems</p>	<p>Matter and Interactions (Mixtures and Solutions) Concentration-Lesson 3.2: Salt Concentration 1, 2, 5 2 Class Periods (Based on 30 minutes) State Changes, Mixtures, and Solutions</p>
<p>Dynamics of Ecosystems (Ecosystems) Lesson 10-Planning Pollution Experiments 11, 14, 16 1-2 Class Periods (Based on 30 minutes) Earth Science: Natural Resources: Conservation</p>	<p>Matter and Interactions (Mixtures and Solutions) Concentration-Lesson 3.3: Mystery Solutions 1, 2, 5 2 Class Periods (Based on 30 minutes) State Changes, Mixtures, and Solutions</p>
<p>Dynamics of Ecosystems (Ecosystems) Lesson 11-Setting Up Our Pollution Experiments 11, 14, 16 1-2 Class Periods (Based on 30 minutes) Earth Science: Natural Resources: Conservation</p>	<p>Matter and Interactions (Mixtures and Solutions) Reaching Saturation-Lesson 4.1: Salt Saturation 1, 3 2 Class Periods (Based on 30 minutes) State Changes, Mixtures, and Solutions</p>
<p>Dynamics of Ecosystems (Ecosystems) Lesson 12-Observing Effects of Pollution 11, 14, 16 1-2 Class Periods (Based on 30 minutes) Earth Science: Natural Resources: Conservation</p>	<p>Matter and Interactions (Mixtures and Solutions) Reaching Saturation-Lesson 4.12: Epsom Salts Saturation 1, 3 1 Class Period (Based on 30 minutes) State Changes, Mixtures, and Solutions</p>
<p>Dynamics of Ecosystems (Ecosystems) Lesson 13-Where Do the Pollutants Go? 11, 14, 16 1-2 Class Periods (Based on 30 minutes) Earth Science: Natural Resources: Conservation</p>	<p>Matter and Interactions (Mixtures and Solutions) Reaching Saturation-Lesson 4.3: The Saturation Puzzle 1, 3 3 Class Periods (Based on 30 minutes) State Changes, Mixtures, and Solutions</p>
	<p>Matter and Interactions (Mixtures and Solutions)</p>

Houston County Schools
5th Grade AMSTI Science Pacing Guide

<p>Dynamics of Ecosystems (Ecosystems) Lesson 14-Drawing Conclusions about Our Experiment 11, 14, 16 2-4 Class Periods (Based on 30 minutes) Earth Science: Natural Resources: Conservation Life Science: Ecosystems Life Science: Changes in Ecosystems Life Science: Biomes: Water Biomes</p> <p>***Added AMSTI Lesson*** A Slick Solution: Cleaning an Oil Spill (Preparatory Lesson) 14, 16, 17 Preparation: 5-10 minutes Lesson: 40- 50 minutes</p> <p>A Slick Solution: Cleaning an Oil Spill Lesson 1-Tehya's Pollution Solution 14, 16, 17 Preparation: 5-10 minutes Lesson: 90-120 minutes (2-3 sessions) Earth Science: Natural Resources</p> <p>A Slick Solution: Cleaning an Oil Spill Lesson 2-An Enviro-Mystery 14, 16, 17 Preparation: 45-50 minutes Lesson: 70-75 minutes Earth Science: Natural Resources</p> <p>A Slick Solution: Cleaning an Oil Spill Lesson 3-A Slick Idea 14, 16, 17 Part 1: Preparation: 20-25 minutes Lesson: 55-60 minutes Part 2: Preparation: 35-40 minutes Lesson: 55-60 minutes Earth Science: Natural Resources</p> <p>A Slick Solution: Cleaning an Oil Spill Lesson 4-Cleaning an Oil Spill 14, 16, 17 Part 1: Preparation: 25-30 minutes Lesson: 50-55 minutes Part 2:</p>	<p>Reaching Saturation-Lesson 4.4: What's in Your Water? 1, 3 7 Class Periods (Based on 30 minutes) Water on Earth: Fresh Water Water on Earth: How Do We Get Water to Our Home?</p> <p>Matter and Interactions (Mixtures and Solutions) Fizz Quiz-Lesson 5.1: Chemical Reactions 1, 2, 3, 4 2 Class Periods (Based on 30 minutes) Physical and Chemical Changes</p> <p>Matter and Interactions (Mixtures and Solutions) Fizz Quiz-Lesson 5.2: Reaction Products 1, 2, 3, 4 3 Class Periods (Based on 30 minutes) Physical and Chemical Changes</p> <p>Matter and Interactions (Mixtures and Solutions) Fizz Quiz-Lesson 5.3: Reaction in a Zip Bag 1, 2, 3, 4 4 Class Periods (Based on 30 minutes) Physical and Chemical Changes</p> <hr/> <p>GLOBE Lesson 1-Making a Sundial 12, 13</p> <p>AMSTI Lesson 2-Sunrise and Sunset: Does the Sun Move? 12, 13</p> <p>AMSTI Lesson 3-Are All Stars Like the Sun? 12, 13</p> <p>A Long Way Down: Designing Parachutes Lesson 1-Paulo's Parachute Mission 6, 7 Preparation: 5-10 minutes Lesson: 90-120 minutes (2-3 Sessions) Space: Our Solar System Space: Beyond Our Solar system</p> <p>A Long Way Down: Designing Parachutes Lesson 2-Think Like an Aerospace Engineer</p>
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Houston County Schools
5th Grade AMSTI Science Pacing Guide

<p>Preparation: 20-25 minutes Lesson: 55-60 minutes Part3: Preparation: 20-25 minutes Lesson: 55-60 minutes Earth Science: Natural Resources</p> <p>Dynamics of Ecosystems (Ecosystems) Lesson 15-Examining a Real Environmental Problem 8, 9, 10, 11, 14, 15, 16, 17 2-4 Class Periods (Based on 30 minutes) Earth Science: Natural Resources: Conservation Life Science: Ecosystems Life Science: Changes in Ecosystems Life Science: Biomes: Water Biomes</p> <p>**Dynamics of Ecosystems (Ecosystems) Lesson 16-Holding the Mini-Conference: A Look at Trade-Offs 11, 14, 15, 16, 17 2-2.5 Class Periods (Based on 30 minutes)</p> <p>Dynamics of Ecosystems (Ecosystems) Lesson 17-Post-Unit Assessment 8, 9, 10, 11, 14, 15, 16, 17 1-2 Class Periods (Based on 30 minutes)</p>	<p>6, 7 Preparation: 5-10 minutes Lesson: 50-55 minutes Space: Our Solar System Space: Beyond Our Solar system</p> <p>A Long Way Down: Designing Parachutes Lesson 3-Slow and Steady Wins the Race 6, 7 Part 1: Preparation: 5-10 minutes Lesson: 30-40 minutes Part 2: Preparation: 25-35 minutes Lesson: 60-45 minutes Space: Our Solar System Space: Beyond Our Solar system</p> <p>A Long Way Down: Designing Parachutes Lesson 4-Designing a Parachute 6, 7 Part 1: Preparation: 5-10 minutes Lesson: 40-50 minutes Part 2: Preparation: 10-15 minutes Lesson: 100-120 minutes Space: Our Solar System Space: Beyond Our Solar system</p>
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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