

Houston County Schools  
3rd Grade AMSTI Science Pacing Guide

<b>First Semester</b> <b>Aug. 6-Dec. 17</b> <b>82 Days</b>  Module (Topic) <b>ALCOS or NSS</b> Minimum Days of Instruction/Assessment Mobymax Alignment Lessons	<b>Second Semester</b> <b>Jan. 4-May 26</b> <b>92 Days</b>  Module (Topic) <b>ALCOS or NSS</b> Minimum Days of Instruction/Assessment Mobymax Alignment Lessons
<p>Heredity and Diversity (Structures of Life) Origin of Seeds-Investigation 1.1 Seed Search <b>5, 6, 7</b> 4 Class Periods (Based on 30 minutes) <b>Life Science: Traits and Heredity: Inherited Traits</b></p> <p>Heredity and Diversity (Structures of Life) Origin of Seeds-Investigation 1.2 The Sprouting Seed <b>5, 6, 7</b> 3 Class Periods (Based on 30 minutes) with 6 days of monitoring <b>Life Science: Traits and Heredity: Inherited Traits vs Acquired Traits</b></p> <p>Heredity and Diversity (Structures of Life) Origin of Seeds-Investigation 1.3 Seed Soak <b>5, 6, 7</b> 3 Class Periods (Based on 30 minutes)</p> <p>Heredity and Diversity (Structures of Life) Origin of Seeds-Investigation 1.4 Seed Dispersal <b>5, 6, 7, 10, 12</b> 4 Class Periods (Based on 30 minutes)</p> <p>Heredity and Diversity (Structures of Life) Origin of Seeds-Investigation 1.1 Seed Search <b>5, 6, 7</b> 4 Class Periods (Based on 30 minutes)</p> <p>Heredity and Diversity (Structures of Life) Origin of Seeds-Summative Assessment <b>5, 6, 7, 10, 12</b> 1 Class Period (Based on 30 minutes)</p> <p>Heredity and Diversity (Structures of Life) Growing Further-Investigation 2.1 Germination and Growth</p>	<p>Motion and Design Class Intro and Lesson 1 Pre-Unit Assessment <b>1, 2</b> 1 Class Period (Based on 30 minutes)</p> <p>Motion and Design Lesson 2 Using Drawings to Record and Build <b>1</b> 1.5 Class Periods (Based on 30 minutes)</p> <p>Motion and Design Lesson 3 Pulling a Vehicle: Looking at Force <b>1, 2</b> 1.5 Class Periods (Based on 30 minutes) <b>Physical Science: Forces of Motion: Force</b></p> <p>Motion and Design Lesson 4 Testing the Motion of Vehicles Carrying a Load <b>1, 2</b> 2 Class Periods (Based on 30 minutes)</p> <p>Motion and Design Lesson 5 Designing Vehicles to Meet Requirements <b>1</b> 1.5 Class Periods (Based on 30 minutes)</p> <p>Motion and Design Lesson 6 Evaluating Vehicle Design: Rubber Band Energy <b>1</b> 1 Class Period (Based on 30 minutes)</p> <p>Motion and Design Lesson 7 Testing the Effects of Rubber Band Energy <b>1, 2</b> 1 Class Period (Based on 30 minutes)</p>

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<p>5, 6, 7 3 Class Periods (Based on 30 minutes) Life Science: Life Cycle of Plants: Pollination and Deciduous and Coniferous Trees</p> <p>Heredity and Diversity (Structures of Life) Growing Further-Investigation 2.2 Life Cycle of the Bean 5, 6, 7, 8, 10 3 Class Periods (Based on 30 minutes) with 6 weeks of monitoring Life Science: Life Cycle of Plants: How Seeds Grow and Life Cycle of a Plant</p> <p>Heredity and Diversity (Structures of Life) Growing Further-Investigation 2.3 Roots and Shoots 5, 6, 7 3 Class Periods (Based on 30 minutes) Life Science: Parts of Plants: What do Plants Need to Survive, Parts of a Plant, What do Leaves do?, What do Stems do?, What do Roots do?</p> <p>Heredity and Diversity (Structures of Life) Growing Further-Summative Assessment 5, 6, 7, 8, 10 1 Class Period (Based on 30 minutes)</p> <p>Heredity and Diversity (Structures of Life) Meet the Crayfish-Investigation 3.1 Crayfish Structures 5, 7, 8, 10, 11, 12 3 Class Periods (Based on 30 minutes) Life Science: Classifying Invertebrates: What Are Invertebrates?</p> <p>Heredity and Diversity (Structures of Life) Meet the Crayfish-Investigation 3.2 Adaptation 5, 7, 8, 10, 11, 12 6 Class Periods (Based on 30 minutes) Life Science: Animal Needs and Adaptations: What Do Animals Need to Survive?, Physical Adaptations of Animals</p> <p>Heredity and Diversity (Structures of Life) Meet the Crayfish-Investigation 3.3 Crayfish Territory 7, 8, 10, 11, 12 3 Class Periods (Based on 30 minutes) with 4</p>	<p>Motion and Design Lesson 8 Evaluating Vehicle Design: Looking at Friction 1 1 Class Period (Based on 30 minutes) Physical Science: Forces of Motion: Speed</p> <p>Motion and Design Lesson 9 Designing and Building a Vehicle with a Sail 1 1 Class Period (Based on 30 minutes)</p> <p>Motion and Design Lesson 10 Testing the Effects of Air Resistance on a Vehicle's Motion 1, 2 1 Class Period (Based on 30 minutes)</p> <p>Motion and Design Lesson 11 Building a Propeller Driven Vehicle 1, 2 1 Class Period (Based on 30 minutes)</p> <p>Motion and Design Lesson 12 Analyzing the Motion and Design of a Propeller-Driven Vehicle 1, 2 2 Class Periods (Based on 30 minutes) Physical Science: Forces of Motion: Position and Motion</p> <p>Motion and Design Lesson 13 Looking at Cost 1, 2 2 Class Periods (Based on 30 minutes)</p> <p>Motion and Design Lesson 14 Planning the Final Design Challenge 1, 2 1-2 Class Periods (Based on 30 minutes)</p> <p>Motion and Design Lesson 15 Refining the Design 1, 2 1 Class Period (Based on 30 minutes)</p> <p>Motion and Design Lesson 16 Presenting the Final Design Challenge 1, 2</p>
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<p>days of monitoring <b>Life Science: Animal Needs and Adaptations: Behavioral Adaptations of Animals</b> Heredity and Diversity (Structures of Life) Meet the Crayfish-Investigation 3.4 Compare Crayfish to Other Animals 5, 6, 7, 8, 10, 11, 12 4 Class Periods (Based on 30 minutes)</p> <p>Heredity and Diversity (Structures of Life) Meet the Crayfish-Investigation 3.5 Food Chains 7, 8, 10, 11, 12 4 Class Periods (Based on 30 minutes)</p> <p>Heredity and Diversity (Structures of Life) Meet the Crayfish-Summative Assessment 5, 6, 7, 8, 10, 11, 12 1 Class Period (Based on 30 minutes)</p> <p>Heredity and Diversity (Structures of Life) Human Body- Investigation 4.1 Counting Bones NONE 6 Class Periods (Based on 30 minutes)</p> <p>Heredity and Diversity (Structures of Life) Human Body- Investigation 4.2 Owl Pellets 9 5 Class Periods (Based on 30 minutes) <b>Life Science: Extinct Species and Fossil Records: What Are Fossils?</b></p> <p>Heredity and Diversity (Structures of Life) Human Body- Investigation 4.3 Joints and Muscles NONE 9 Class Periods (Based on 30 minutes)</p> <p>Heredity and Diversity (Structures of Life) Human Body- Investigation 4.4 Fingerprints NONE 5 Class Periods (Based on 30 minutes)</p> <hr/> <p>Water and Climate Water Observations-Investigation 1.1 Drops of Water 13, 14, 15 3 Class Periods (Based on 30 minutes) <b>Earth Science: Water: Who Needs Water?, How Do We Use Water?</b></p>	<p>2 Class Periods (Based on 30 minutes)</p> <p>Motion and Design Lesson 17 Summative Assessment 1 1 Class Period (Based on 30 minutes)</p> <hr/> <p>The Attraction is Obvious Lesson 1 Hikaru's Toy Troubles 3, 4 5 Class Periods (Based on 30 minutes)</p> <p>The Attraction is Obvious Lesson 2 Steering Clear of Danger 3, 4 2 Class Periods (Based on 30 minutes)</p> <p>The Attraction is Obvious Lesson 3 A Magnetic Personality 3, 4 2 Class Periods (Based on 30 minutes) <b>Physical Science: Forces of Motion: Gravity and Magnetism</b></p> <p>The Attraction is Obvious Lesson 4 Designing a Maglev System 3, 4 8 Class Periods (Based on 30 minutes)</p>
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Water and Climate  
Water Observations-Investigation 1.2 Water on  
a Slope

13, 14, 15

2 Class Periods (Based on 30 minutes)

Earth Science: Water: Freshwater and  
Salt Water, States of Water

Water and Climate  
Water Observations-Investigation 1.3 Soaking  
Sponges

13, 14, 15

2 Class Periods (Based on 30 minutes)

Earth Science: Water: The Water Cycle

Water and Climate  
Water Observations-Investigation 1.4 Water in  
Nature

13, 14, 15

4 Class Periods (Based on 30 minutes)

Earth Science: Water: Cleaning Our Water

Water and Climate  
Water Observations-Summative Assessment

13, 14, 15

1 Class Period (Based on 30 minutes)

Water and Climate  
Hot Water, Cold Water-Investigation 2.1  
Measuring Temperature

13, 14, 15

2 Class Periods (Based on 30 minutes)

Water and Climate  
Hot Water, Cold Water-Investigation 2.2 Build a  
Thermometer

13, 14, 15

1 Class Period (Based on 30 minutes)

Water and Climate  
Hot Water, Cold Water-Investigation 2.3 Sinking  
and Floating Water

13, 14, 15

2 Class Periods (Based on 30 minutes)

Water and Climate  
Hot Water, Cold Water-Investigation 2.4 Water  
as Ice

13, 14, 15

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4 Class Periods (Based on 30 minutes)

Water and Climate  
Hot Water, Cold Water-Investigation 2.5 Ice  
Outdoors

13, 14, 15

3 Class Periods (Based on 30 minutes)

Water and Climate  
Weather and Water-Investigation 3.1 Measuring  
Weather

13, 14, 15

3 Class Periods (Based on 30 minutes)

Earth Science: Weather: Measuring Weather

Water and Climate  
Weather and Water-Investigation 3.2  
Evaporation

13, 14, 15

3 Class Periods (Based on 30 minutes)

Physical Science: How Does Matter Change?:

Physical and Chemical Changes in Matter

Water and Climate  
Weather and Water-Investigation 3.3 Surface  
Area

13, 14, 15

3 Class Periods (Based on 30 minutes)

Water and Climate  
Weather and Water-Investigation 3.4  
Evaporation Locations

13, 14, 15

2 Class Periods (Based on 30 minutes) with 5  
days of daily monitoring

Earth Science: Weather: Weather and the  
Atmosphere

Water and Climate  
Weather and Water-Investigation 3.5  
Condensation

13, 14, 15

4 Class Periods (Based on 30 minutes)

Water and Climate  
Seasons and Climate-Investigation 4.1  
Seasonal Weather

13, 14, 15

3 Class Periods (Based on 30 minutes)

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<p>Water and Climate Seasons and Climate-Investigation 4.2 Describing Climate 13, 14, 15 2 Class Periods (Based on 30 minutes)</p> <p>Water and Climate Seasons and Climate-Investigation 4.3 Weather-Related Natural Hazards 13, 14, 15 5 Class Periods (Based on 30 minutes) Earth Science: Weather: Weather Patterns</p> <p>Water and Climate Waterworks-Investigation 5.1 Water in Earth Materials NONE 3 Class Periods (Based on 30 minutes)</p> <p>Water and Climate Waterworks-Investigation 5.2 Water in Soil NONE 2 Class Periods (Based on 30 minutes)</p> <p>Water and Climate Waterworks-Investigation 5.3 Waterwheels NONE 6 Class Periods (Based on 30 minutes)</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