

Long Beach Island Consolidated School District Pacing Guide 2018-2019

Unit 1 Title: *Engineering and Technology*

September-October

Target Course/Grade Level: 1st Grade Science

Interdisciplinary Connections: Integrated throughout the unit are connections to New Jersey Student Learning Standards for ELA, Math, and Technology.

Standards:

K-2: ETS1-1: Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.

K-2-ETS1-2: Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.

K-2-ETS1-3: Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.

Lesson and Assessment	Days for Instruction and Assessment
Lesson 1: “How Do Engineers Use Technology?”	7
Lesson 2: “How Can We Solve a Problem?”	7
You Solve It (digital)*	1
Unit 1 Performance Task*	2
Performance-Based Assessment*	2
Unit 1 Review and Unit Test	2
Unit 1 Project*	3
Total Days	24

***Omit for core path of instruction**

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Unit 2 Title: *Sound*
October-November

Target Course/Grade Level: 1st Grade Science

Interdisciplinary Connections: Integrated throughout the unit are connections to New Jersey Student Learning Standards for ELA, Math, and Technology.

Standards:

1-PS4-1: Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.

1-PS4-4: Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance.

Lesson and Assessment	Days for Instruction and Assessment
Lesson 1: “What is Sound?”	7
Lesson 2: “How Can We Communicate with Sound?”	7
You Solve It (digital)*	1
Unit 2 Performance Task*	2
Performance-Based Assessment*	2
Unit 2 Review and Unit Test	2
Unit 2 Project*	3
Total Days	24

***Omit for core path of instruction**

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Unit 3 Title: *Light*

November-January

Target Course/Grade Level: 1st Grade Science

Interdisciplinary Connections: Integrated throughout the unit are connections to New Jersey Student Learning Standards for ELA, Math, and Technology.

Standards:

1-PS4-2: Make observations to construct an evidence-based account that objects can be seen only when illuminated.

1-PS4-3: Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.

1-PS4-4: Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance.

Lesson and Assessment	Days for Instruction and Assessment
Lesson 1: “How Does Light Help Us See?”	7
Lesson 2” “How Do Materials Block Light?”	7
Lesson 3: “How Does Light Travel?”	7
You Solve It (digital)*	1
Unit 3 Performance Task*	2
Performance-Based Assessment*	2
Unit 3 Review and Unit Test	2
Unit 3 Project*	3
Total Days	31

***Omit for core path of instruction**

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Unit 4 Title: *Plant and Animal Structures*

January-February

Target Course/Grade Level: 1st Grade Science

Interdisciplinary Connections: Integrated throughout the unit are connections to New Jersey Student Learning Standards for ELA, Math, and Technology.

Standards:

1-LS1-1: Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.

Lesson and Assessment	Days for Instruction and Assessment
Lesson 1: “What Parts Help Plants Live?”	7
Lesson 2: “What Body Parts Help Animals Stay Safe?”	7
Lesson 3: “What Body Parts Help Animals Meet Their Needs?”	7
Lesson 4: “How Do Plants and Animals Respond to Their Environment?”	7
You Solve It (digital)*	1
Unit 4 Performance Task*	2
Performance-Based Assessment*	2
Unit 4 Review and Unit Test	2
Unit 4 Project*	3
Total Days	38

***Omit for core path of instruction**

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Unit 5 Title: *Living Things and Their Young*
February-April

Target Course/Grade Level: 1st Grade Science

Interdisciplinary Connections: Integrated throughout the unit are connections to New Jersey Student Learning Standards for ELA, Math, and Technology.

Standards:

1-LS1-2: Read texts and use media to determine patterns of behavior of parents and offspring that help offspring survive.

1-LS3-1: Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.

Lesson and Assessment	Days for Instruction and Assessment
Lesson 1: “How Do Plants Look Like Their Parents?”	7
Lesson 2: “How Do Animals Look Like Their Parents?”	7
Lesson 3: “How Do Animals Take Care of Their Young?”	7
You Solve It (digital)*	1
Unit 5 Performance Task*	2
Performance-Based Assessment*	2
Unit 5 Review and Unit Test	2
Unit 5 Project*	3
Total Days	31

***Omit for core path of instruction**

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Unit 6 Title: *Objects and Patterns in the Sky*

April-June

Target Course/Grade Level: 1st Grade Science

Interdisciplinary Connections: Integrated throughout the unit are connections to New Jersey Student Learning Standards for ELA, Math, and Technology.

Standards:

1-ESS1-1: Use observations of the sun, moon, and stars to describe patterns that can be predicted.

1-ESS1-2: Make observations at different times of year to relate the amount of daylight to the time of year.

Lesson and Assessment	Days for Instruction and Assessment
Lesson 1: “How Do Objects in the Sky Seem to Change?”	7
Lesson 2: What Are Patterns of Daylight?”	7
You Solve It (digital)*	1
Unit 6 Performance Task*	2
Performance-Based Assessment*	2
Unit 6 Review and Unit Test	2
Unit 6 Project*	3
Total Days	24

***Omit for core path of instruction**