

New Jersey Student Learning Standards: Science Grade 2 Pacing Guide

Established 2017-2018

Revised 2021-2022

Revised 2022-2023

Trimester 1 <i>(approx. 60 days)</i>	Trimester 2 <i>(approx. 60 days)</i>	Trimester 3 <i>(approx. 60 days)</i>
<p>Unit 1 - Engineering Design Process 15-25 Days {K-2-ETS1-1, K-2-ETS1-2, K-2-ETS1-3}</p> <ul style="list-style-type: none"> What are the procedures and rules to ensure science safety? <ul style="list-style-type: none"> Five Safety Procedures/Rules Unit 1 Project (3 days) <ul style="list-style-type: none"> Runaway Wagon *Engineer It- What is a Design Process? (12 days) <ul style="list-style-type: none"> What do Engineers do? <ul style="list-style-type: none"> Step 1- Define a Problem Step 2- Plan and Build Step 3- Test and Improve Step 4- Redesign Step 5- Communicate How does a design process help engineers? *Engineer It- How Can We Compare Design Solutions? (12 days) <ul style="list-style-type: none"> How do engineers use the design process to plan and build solutions to problems? 	<p>Unit 3 - Environments for Living Things 30 - 40 Days {2-LS2-1, 2-LS2-2, 2-LS4-1}</p> <ul style="list-style-type: none"> Unit 3 Project (3 days) <ul style="list-style-type: none"> Explore Habitats What Do Plants Need? (12 days) <ul style="list-style-type: none"> What Plants Need Taking it in *Engineer It- How Do Plants Depend on Animals? (12 days) <ul style="list-style-type: none"> Animals Help Spread Seeds How Animals Spread Pollen What Plants and Animals Live in Water Habitats? (12 days) <ul style="list-style-type: none"> Ponds River Deltas Tide Pools What Plants and Animals Live in Land Habitats? (12 days) <ul style="list-style-type: none"> Rainforest Habitats Forest Habitats Savanna Habitats 	<p>Unit 5 - Changes to Earth's Surface 40-50 Days {2-ESS1-1, 2-ESS2-1}</p> <ul style="list-style-type: none"> Unit 5 Project (3 days) <ul style="list-style-type: none"> Make a Windbreak What Changes on Earth Happen Slowly? (12 days) <ul style="list-style-type: none"> Weathering by Wind Weathering by Water and Ice Weathering by Plants Erosion by Wind Erosion by Water and Ice What Changes on Earth Happen Quickly? (12 days) <ul style="list-style-type: none"> Earthquakes Volcanoes Landslides Hurricanes Floods *Engineer It- How Can We Prevent Wind and Water from Changing Land? (12 days) <ul style="list-style-type: none"> Changes Caused by Wind Changes Caused by Water Ways to Prevent Changes to Land

- One Problem, Many Solutions
- Build and Test a Solution
- Compare Design Solutions

Unit 2 - Matter

30-40 Days {2-PS1-1, 2-PS1-2, 2-PS1-3, 2-PS1-4}

- Unit 2 Project
(3 days)
 - Explore Melting
- ***Engineer It-** What Are Properties of Matter?
(12 days)
 - Properties of Matter
 - States of Matter
(Solids/Liquids)
 - Which Materials are Best?
- How Are Objects Put Together?
(12 days)
 - Build It Up, Break It Down
 - What Is the Same?
- How Do Heating and Cooling Change Matter?
(12 days)
 - Melt It
 - Cook It
 - Burn It
 - Cool It Down
- How Does Matter Change?
(12 days)
 - Reversible Changes
 - Irreversible Changes

Unit 4 - Earth's Surface

15 - 25 days {2-ESS2-2, 2-ESS2-3}

- Unit 4 Project
(3 days)
 - Explore Ocean Water
- Where is Water Found on Earth?
(12 days)
 - Lakes and Ponds
 - Rivers and Oceans