

## Grade 7 Science New Jersey Student Learning Standards Pacing Guide

*Established 2016-2017 Revised 2018-2019 Revised 2019-2020 Revised 2020-2021 Revised 2022-2023 Revised 2023-2024 Revised 2024-2025*

### Trimester 1 60 Days

Science Inquiry and Science Safety Skills (20 days) {MS-ETS1:1-4}	Physical Science Unit 3- The Structure of Matter (22 days) {PS1-1, PS1-4}	Physical Science Unit 4- Chemical Processes and Equations (18 Days) {PS1-2, PS1-5, PS1-6}
1. Science Inquiry and Scientific Methods 2. Lab Safety Skills 3. STEM Challenge 4. Engineering Design Process	1. The Properties of Matter 2. Changes of State 3. Atoms and Elements 4. Molecules and Extended Structures	1. Chemical Reactions 2. Chemical Equations 3. Engineer It: Thermal Energy and Chemical Processes

### Trimester 2 60 Days

Physical Science Unit 5- The Chemistry of Materials (15 days) {PS1-2, PS1-5, PS1-6}	Life Science Unit 3- Matter and Energy in Living Systems (25 Days) {LS1-6, LS1-7, LS2-1, LS2-2, LS 2-3}	Life Science Unit 4- Ecosystem Dynamics ( 20 Days) {LS2-4, LS2-5}
1. Natural and Synthetic Materials 2. Engineer It: The Life Cycle of Synthetic Materials	1. Matter and Energy in Organisms 2. Resource Availability Affects Organisms 3. Interactions in Ecosystems 4. Matter and Energy in Ecosystems STEM Month Activities	1. Biodiversity in Ecosystems 2. Changes in Ecosystems 3. Engineer It: Maintaining Biodiversity

### Trimester 3 60 Days

Earth and Space Sciences Unit 6- Resources in Earth Systems (20 Days) {LS1-1, 1-2, 1-3, 1-8}	Earth and Space Sciences Unit 7- Human Impacts on Earth Systems (20 Days) {LS1-1, 1-2, 1-3, 1-8}	Engineering Design Unit 1- Introduction to Engineering & Science (20 Days) {MS-ETS1:1-4}
1. Natural Resources 2. Human Population and Resource Use 3. Resource Use and Earth's Systems	1. Engineer It: Reducing Human Impacts on the Environment 2. Climate Change Earth Day Activities	1. Engineering, Science and Society 2. Researching and Defining Problems 3. Developing and Testing Solutions 4. Optimizing and Testing Solutions

