



CSDE Model Curricula Quick Start Guide

Science 3-5 Connecticut's public digital library of open educational resources by and for teachers

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CSDE Model Curricula Model Units Connected to Defined Learning Performance Tasks

The CSDE maintains high expectations for teaching and learning, grounded in the belief that experiences providing opportunities to develop, apply, and demonstrate knowledge and skills are essential. The vision for this work is to ensure all students have access to multiple and flexible pathways for learning that will prepare them for college, career, and civic life. CSDE and Defined Learning have partnered to curate a list of real-world, project-based learning tasks aligned to the Connecticut Model Science units for grades 3-5. Below you will find the unit names by grade level and the aligned Defined Learning tasks for each in *italics*.

Grade 3

- **Organism Traits Unit**
 - › *Zookeeper*
 - › *Naturalist: Monarch Butterfly*
 - › *Marine Biologist: Sharks*
 - › *Research Geneticist*
 - › *Entomologist: Bee Populations*
- **Advantages in Survival Unit**
 - › *Entomologist: Bee Populations*
 - › *Ecologist: Invasive Species*
 - › *Animal Shelter Manager*
 - › *Nature Center Educator: Animal Adaptations*
 - › *Aquarium Designer*
 - › *Wildlife Biologist: Bat House Building*
- **Environmental Change Over Time Unit**
 - › *Marine Biologist: Repurposing Trash*
 - › *Forester*
 - › *Fall Foliage Tour: National Tour Company Owner*
- **Forces and Interactions of Objects Unit**
 - › *Parachute Designer*
 - › *Transportation Engineer: Maglev Trains*
 - › *Toy Designer*
 - › *Test Laboratory Manager: Baseball Bats*
 - › *Magnet Engineer*

Grade 4

- **Structure and Functions of Organisms Unit**
 - › *Technology Information Professional*
 - › *Audiologist*
 - › *Wildlife Biologist: Bats*
 - › *Biomedical Engineer: Bionic Pets*
- **Energy Transfer and Information Transmission Unit**
 - › *Wind Energy Systems Installer*
 - › *Solar Energy Systems Installer*
 - › *Alternate Fuel Vehicles*
 - › *Protective Packaging*
- **Energy and Collisions Unit**
 - › *Protective Packaging*
 - › *Engineer: Inventing machines*
 - › *Test Laboratory Manager: Analyzing Baseball Bats*
- **Waves and Erosion Unit**
 - › *Erosion Management Specialist*
 - › *River Rafting Guide: Wind and Water Erosion*
- **Reducing Impacts Unit**
 - › *River Rafting Guide: Wind and Water Erosion*
 - › *Rain Gardens*
 - › *Energy Management Consultant*
 - › *Extreme Weather Solutions*

Grade 5

- **Physical and Chemical Changes Unit**
 - › *Salad Maker*
 - › *Space Flight Material*
 - › *Awesome Chemist*
 - › *Civil Engineer: Water Treatment*
- **Matter and Energy in Ecosystems Unit**
 - › *Sunflower Farmer*
 - › *Arborist: Urban Tree Canopy*
 - › *Aquarium Designer*
 - › *Botanist: Creating a Vertical Garden*
 - › *Rain Barrel Manufacturer*
 - › *Water Filter*
- **Earth's Major Systems Unit**
 - › *Rain Barrel Manufacturer*
 - › *Water Filter*
- › *Aircraft Designer*
- › *Roller Coaster Designer*
- › *Earth Scientist: Alternative Energy*
- › *Fashion Designer: Fast Fashion*
- › *Park Designer*
- › *Planetarium Host: Seasonal Constellations*
- **Stars and the Solar System Unit**
 - › *Planetarium Host: Seasonal Constellations*
 - › *Astronomer*