

## **Standard: 3-LS1 From Molecules to Organisms: Structures and Processes**

<https://www.nextgenscience.org/dci-arrangement/3-ls1-molecules-organisms-structures-and-processes>

### **Science and Engineering Practices**

Asking Questions

Analyzing and Interpreting Data

Constructing Explanations

#### *Classroom Connection:*

- Students ask questions in response to a reading activity.
- Students map locations of monarch butterfly sightings from real-time data.
- Students use information learned about the life cycle of a butterfly to explain the Monarch's life span.

### **Disciplinary Core Idea**

LS1.B: Growth and Development of Organisms Reproduction is essential to the continued existence of every kind of organism. Plants and animals have unique and diverse life cycles.

#### *Classroom Connection:*

Students learn the stages in the life cycle of a butterfly and specific information about the Monarch at each stage.

### **Crosscutting Concepts**

Scale, Proportion and Quantity

Stability and Change

#### *Classroom Connection:*

- Students create a timeline of the butterfly's life cycle.
- Students model the journey of a Monarch butterfly's migration.
- Students explore the migratory patterns of Monarch butterfly migration.
- Students explain how the Monarch changes throughout its life cycle.

### **Performance Expectation**

3-LS1-1. From molecules to Organisms: Structures and Processes

Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.