3-LS1 From Molecules to Organisms: Structures and Processes

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Students who demonstrate understanding can:

3-LS1-1. Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death. [Clarification Statement: Changes organisms go through during their life form a pattern.] [Assessment Boundary:

life cycles. (3-LS1-1)

Assessment of plant life cycles is limited to those of flowering plants. Assessment does not include details of human reproduction.]

The performance expectations above were developed using the following elements from the NRC document A Framework for K-12 Science Educations

LS1.B: Growth and Development of Organisms

Disciplinary Core Ideas

Reproduction is essential to the continued existence of every

kind of organism. Plants and animals have unique and diverse

Crosscutting Concepts

predictions. (3-LS1-1)

Patterns of change can be used to make

Patterns

Science and Engineering Practices

Developing and Using Models

Modeling in 3–5 builds on K–2 experiences and progresses to building and revising simple models and using models to represent events and design solutions.

Develop models to describe phenomena. (3-LS1-1)

Connections to Nature of Science

Scientific Knowledge is Based on Empirical Evidence

Science findings are based on recognizing patterns. (3-LS1-1)

Connections to other DCIs in third grade: N/A

Articulation of DCIs across grade-levels: MS.LS1.B (3-LS1-1)

Common Core State Standards Connections:

ELA/Literacy -

RI.3.7 Use information gained from illustrations (e.g., maps, photographs) and the words in a text to demonstrate understanding of the text (e.g., where, when, why, and how

key events occur). (3-LS1-1)

SL.3.5 Create engaging audio recordings of stories or poems that demonstrate fluid reading at an understandable pace; add visual displays when appropriate to emphasize or

enhance certain facts or details. (3-LS1-1)

Mathematics -

MP.4 Model with mathematics. (3-LS1-1)

3.NBT Number and Operations in Base Ten *(3-LS1-1)* **3.NF** Number and Operations—Fractions *(3-LS1-1)*