



Reproduction of Organisms

Total Unit Running Time: 30-40* minutes

NGSS Addressed: MS-LS1-4, MS-LS1-5, MS-LS3-2, MS-LS4-4, MS-LS4-5

FIELD TRIP: Nahant Marsh Apiary

Running Time: 6:01

NGSS: MS-LS4-4, MS-LS4-5

This site is abuzz with facts and other information about the current conditions for bees. On location at an apiary and in full bee garb, VVR Host, Steve Grubbs, reveals threats to our bee population, such as Colony Collapse Disease, as well as the pesky Varroa Mite. Find out what is being done to combat these issues. For more information visit: NahantMarsh.org

INTERACTIVE EXPERIENCE: Word Search

Running Time: Self-paced*

Based on a traditional word search, students stand in a 360* cylinder with letters spanning the floor to the ceiling. Hidden within the mass of letters are terms from the lessons they experience in this unit. By staring at the first letter of a vocabulary word, students start a yellow line that runs across a word as they move their head. Once students get to the last letter, they pause and allow the word to be fully highlighted and checked off the list.

VIRTUAL COMIC BOOK: Animal Reproduction

Running Time: 5:50

NGSS: MS-LS1-4

Topics Covered

- External vs. internal fertilization
- Process of sexual reproduction including courtship, mating, fertilization, and offspring

Assessment Answer Key & Critical Thinking Skills

1. A (BT1--knowledge)
2. D (BT6--evaluation)
3. D (BT2--comprehension)
4. C (BT1--knowledge)
5. B (BT3--application)

JOURNEY: Plant Reproduction

Running Time: 6:18

NGSS: MS-LS1-4, MS-LS3-2

Topics Covered

- Concepts of vegetative propagation, sporogenesis, fragmentation, self-fertilization, and apomixis
- Asexual vs. sexual reproduction

Assessment Answer Key & Critical Thinking Skills

1. B (BT2--comprehension)
2. C (BT1--knowledge)
3. D (BT3--application)
4. A (BT4--analysis)
5. D (BT2--comprehension)

TEACHER DEMO: Fishing with Wendy

Running Time: 9:58

NGSS: MS-LS1-4, MS-LS1-5

Topics Covered

- Purpose and function of fish hatcheries
- Optimal breeding conditions for Walleye

Assessment Answer Key & Critical Thinking Skills

1. A (BT5--synthesis)
2. B (BT4--analysis)
3. D (BT2--comprehension)
4. B (BT4--analysis)
5. D (BT2--comprehension)