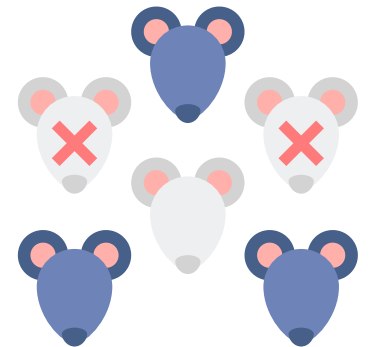
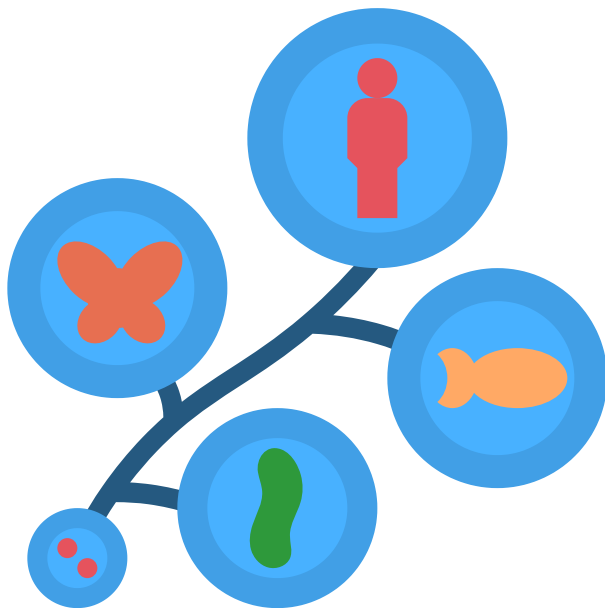


NGSS MS-LS4

Biological Evolution: Unity and Diversity

Full Standard BUNDLE

- ✓ Everything You Need to Teach NGSS MS-LS4
- ✓ Lessons, Activities, Labs, and more
- ✓ MS-LS4-1, LS4-2, LS4-3, LS4-4, LS4-5, LS4-6



Bundles Included

NGSS MS-LS4-1

Curriculum Bundle

Fossil Record & Evidence of Evolution

- ✓ 1 Lesson and 3 Activities
- ✓ Everything You Need to Teach NGSS MS-LS4-1



NGSS MS-LS4-2

Curriculum Bundle

Evolution Evidence from Anatomy

- ✓ 1 Lesson and 4 Activities
- ✓ Everything You Need to Teach NGSS MS-LS4-2

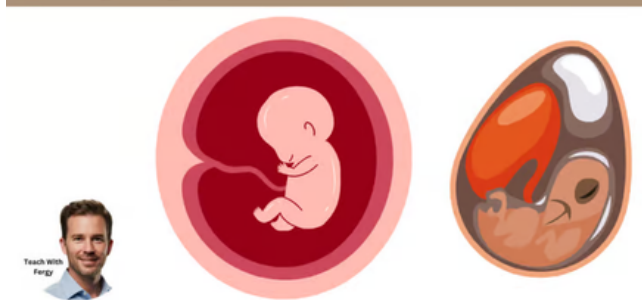


NGSS MS-LS4-3

Curriculum Bundle

Embryo Development & Evolution

- ✓ 1 Lesson and 2 Activities
- ✓ Everything You Need to Teach NGSS MS-LS4-3



NGSS MS-LS4-4

Curriculum Bundle

Natural Selection & Adaptation

- ✓ 2 Lessons and 4 Activities
- ✓ Everything You Need to Teach NGSS MS-LS4-4



NGSS MS-LS4-5

Curriculum Bundle

Genetic and Reproductive Technologies & Artificial Selection

- ✓ 2 Lessons and 5 Activities
- ✓ Everything You Need to Teach NGSS MS-LS4-5



NGSS MS-LS4-6

Curriculum Bundle

Natural Selection & Population Traits Over Time

- ✓ 2 Lessons and 4 Activities
- ✓ Everything You Need to Teach NGSS MS-LS4-6

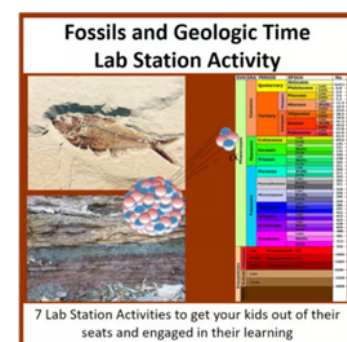
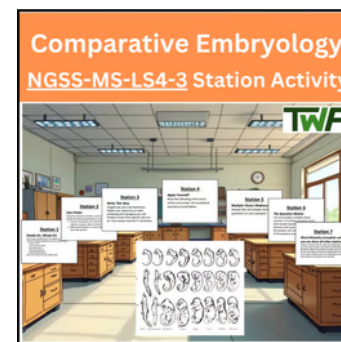
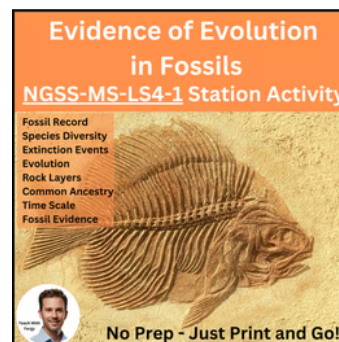
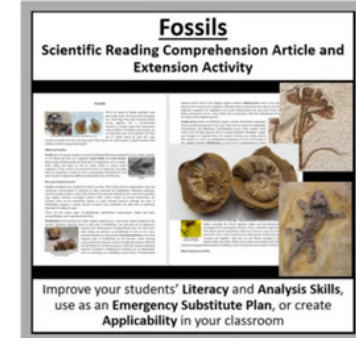
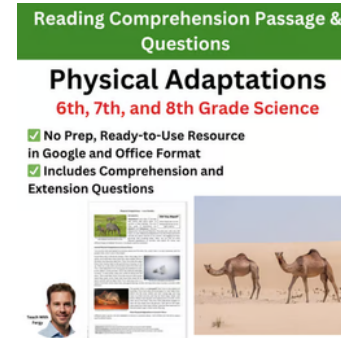
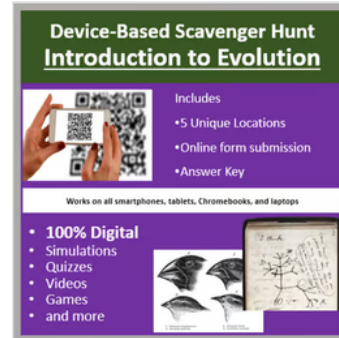
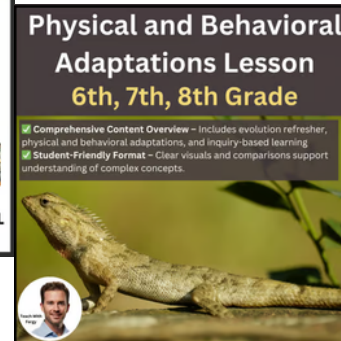
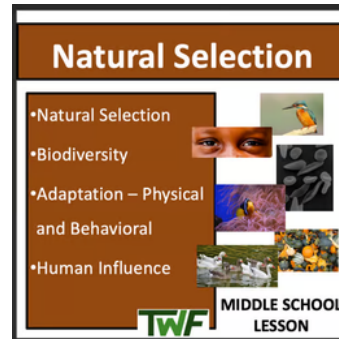


Everything You Need to Completely Cover NGSS MS-LS4

Complete Lessons

Activities

Labs



The Standard is Explained and the Resources it Incorporates are Outlined

MS LS4 Biological Evolution: Unity and Diversity

Note: There are resources that overlap between the standards. Simply choose the order that best fits your classroom. Also, there are more resources here than you will most likely decide to use. I have provided extra so you can make the best decision for your students on what is best to include.

MS LS4-1: Analyze and interpret data for patterns in the fossil record that document the existence, diversity, extinction, and change of life forms throughout the history of life on Earth under the assumption that natural laws operate today as in the past.

Emphasis is on finding patterns of changes in the level of complexity of anatomical structures in organisms and the chronological order of fossil appearance in the rock layers. *Assessment Boundary:* Assessment does not include the names of individual species or geological eras in the fossil record.

Resources:

- Fossils and Geologic Time Lesson
- Fossils Reading
- Evidence of Evolution in Fossils - Station Activity
- Fossils and Geologic Time Lab Station Activity

MS LS4-2: Apply scientific ideas to construct an explanation for the anatomical similarities and differences among modern organisms and between modern and fossil organisms to infer evolutionary relationships.

Emphasis is on explanations of the evolutionary relationships among organisms in terms of similarity or differences of the gross appearance of anatomical structures.

Resources:

- Evolution Lesson
- Fossils Reading
- Common Ancestry - Station Activity
- Evolution - Scavenger Hunt
- Crash Course Video Worksheet - The Timeline of Life

MS LS4-3: Analyze displays of pictorial data to compare patterns of similarities in the embryological development across multiple species to identify relationships not evident in the fully formed anatomy.

Emphasis is on inferring general patterns of relatedness among embryos of different organisms by comparing the macroscopic appearance of diagrams or pictures. *Assessment Boundary:* Assessment of comparisons is limited to gross appearance of anatomical structures in embryological development.

Resources:

- Comparing Embryos Evidence of Common Ancestry and Evolution Lesson
- Comparative Embryology - Station Activity
- Crash Course Video Worksheet Human Evolution and Chimps

MS LS4-4: Construct an explanation based on evidence that describes how genetic variations of traits in a population increase some individuals' probability of surviving and reproducing in a specific environment.

Emphasis is on using simple probability statements and proportional reasoning to construct explanations.

Resources:

- Physical & Behavioral Adaptations Lesson
- Natural Selection Lesson
- Natural Selection and Adaptation - Station Activity
- Physical Adaptations Reading
- Animal Adaptations Reading
- Crash Course Video Worksheet Population Genetics

MS LS4-5: Gather and synthesize information about technologies that have changed the way humans influence the inheritance of desired traits in organisms.

Emphasis is on synthesizing information from reliable sources about the influence of humans on genetic outcomes in artificial selection (such as genetic modification, animal husbandry, gene therapy); and, on the impacts these technologies have on society as well as the technologies leading to these scientific discoveries.

Resources:

- Genetic Technologies and Gene Therapy Lesson
- Reproductive Technologies Lesson
- Reproductive Technologies - Scavenger Hunt
- Artificial Selection - Station Activity
- GMO Research Activity
- Genetically Modified Organisms Reading
- Genetics and Gene Therapy Reading

MS LS4-6: Use mathematical representations to support explanations of how natural selection may lead to increases and decreases of specific traits in populations over time.

Emphasis is on using mathematical models, probability statements, and proportional reasoning to support explanations of trends in changes to populations over time. *Assessment Boundary:* Assessment does not include Hardy Weinberg calculations.

Resources:

- Physical & Behavioral Adaptations Lesson
- Natural Selection and Population Modeling - Station Activity
- Physical Adaptations Reading
- Natural Selection Lesson
- Animal Adaptations Reading
- Crash Course Video Worksheet - Life's Way of Stayin Alive

Who is this Bundle for?

- **Teachers who teach Middle School Science and use the NGSS**
- **Teachers who want multiple resources at their fingertips including lessons and a variety of activities, in order to meet the standard**
- **Teachers who don't have time to develop their own resources or organize what to teach and when**