

INTERDISCIPLINARY LITERACY PRACTICES

GRADE 8
SCIENCE

In Action

High-Quality Instructional Resource:

Amplify Science

Kentucky Academic Standards for Science:

08-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.

08-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.

Science and Engineering Practices: Analyze and interpret data to determine similarities and differences in findings.

Cross Cutting Concepts: Graphs, charts and images can be used to identify patterns in data.

Interdisciplinary Literacy Practices Featured in This Video:

- ILP 2** Employ, develop and refine schema to understand and create text.
- ILP 3** View literacy experiences as transactional, interdisciplinary and transformational.
- ILP 5** Apply strategic practices, with scaffolding and then independently, to approach new literacy tasks.
- ILP 8** Engage in specialized, discipline-specific literacy practices.
- ILP 9** Apply high level cognitive processes to think deeply and critically about text.
- ILP 10** Develop a literacy identity that promotes lifelong learning.

Lesson Opening:

Engage students with **anchoring phenomenon** video, and identify the problem they will be solving: Use fossil records as paleontologists might do to find similarities and differences between organisms.

Lesson Procedures:

- Analyze Greek and Latin roots to understand science vocabulary.
- Discuss evidence paleontologists use to understand the past.
- Compare images of different animals and their skeletons for similarities and differences.
- Analyze and interpret data** to compare images of different animals and their skeletons for similarities and differences (patterns).

Lesson Closing:

Exit Slip: **Analyze and interpret data** by comparing leg bones of different animals and deciding which are most closely related.



Kentucky Department of
EDUCATION