



Let Cincinnati Museum Center be your teaching partner! All experiences help develop critical-thinking skills while aligning with Ohio, Kentucky and National Academic Content Standards. See below for a list of Standards this virtual experience covers. If you have any questions, please contact Tony Lawson at tlawson@cincymuseum.org.

Ohio Learning Standards

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| <p>K.LS.2: Living things have physical traits and behaviors, which influence their survival.</p> <p>2.LS.2: All organisms alive today result from their ancestors, some of which may be extinct. Not all kinds of organisms that lived in the past are represented by living organisms today.</p> <p>4.LS.1: Changes in an organism’s environment are sometimes beneficial to its survival and sometimes harmful.</p> | <p>4.LS.2: Fossils can be compared to one another and to present day organisms according to their similarities and differences.</p> <p>4.ESS.2: The surface of Earth changes due to weathering.</p> <p>8.LS.1: Diversity of species, a result of variation of traits, occurs through the process of evolution and extinction over many generations. The fossil records provide evidence that changes have occurred in number and types of species</p> |
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Kentucky Learning Standards

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| <p>3.LS4.1: <i>Interdependent Relationships in Ecosystems.</i> Analyze and interpret data from fossils to provide evidence of the organisms and environments in which they lived long ago.</p> <p>8.LS4.1: <i>Natural Selection and Adaptations.</i> 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.</p> | <p>8.LS4.2: <i>Natural Selection and Adaptations.</i> 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.</p> |
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Kentucky Learning Standards (*continued*)

HS.LS4.5: *Natural Selection and Evolution.* Evaluate the evidence supporting claims that changes in environmental conditions may result in: (1) increases in the number of individuals of some species, (2) the emergence of new species over time, and (3) the extinction of other species.

4.ESS1.1: *Earth Systems: Processes that Shape the Earth.* Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time.

8.ESS1.4 *History of Earth.* Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6-billion-year-old history.