

GRADE 7
3a

Evolution

Biological evolution accounts for the diversity of species developed through gradual processes over many generations. As a basis for understanding this concept:

Students know both genetic variation and environmental factors are causes of evolution and diversity of organisms.

GRADE 7
3b

Evolution

A typical cell of any organism contains genetic instructions that specify its traits. Those traits may be modified by environmental influences. As a basis for understanding this concept:

Students know the reasoning used by Darwin in making his conclusion that natural selection is the mechanism of evolution.



Evolution

A typical cell of any organism contains genetic instructions that specify its traits. Those traits may be modified by environmental influences. As a basis for understanding this concept:

Students know how independent lines of evidence from geology, fossils, and comparative anatomy provide a basis for the theory of evolution.

GRADE 7

3d

Evolution

A typical cell of any organism contains genetic instructions that specify its traits. Those traits may be modified by environmental influences. As a basis for understanding this concept:

Students know how to construct a simple branching diagram to classify living groups of organisms by shared derived characteristics and how to expand the diagram to include fossil organisms.



Evolution

A typical cell of any organism contains genetic instructions that specify its traits. Those traits may be modified by environmental influences. As a basis for understanding this concept:

Students know that extinction of a species occurs when the environment changes and the adaptive characteristics of a species are insufficient for its survival.