

# Phylogenetic Tree of Life

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ELC-4042

## NGSS STANDARDS

### **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.

### **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.

### **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.

### **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..