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| Lesson Number and Title | Objectives | State standard |
| 1 – Evolutionary Trees | * SWBAT identify the direction of time in an evolutionary tree * SWBAT articulate that taxa branching more recently are more closely related * SWBAT identify extinction events in an evolutionary tree | MS-LS4-2 |
| 2 – Common Ancestry | * SWBAT define homology * SWBAT describe the existence of homologies based on common ancestry, as illustrated by an evolutionary tree * SWBAT identify potential homologies from anatomical images and specimens * SWBAT draw diagrams from images or specimens, labeling potential homologies | MS-LS4-2 |
| 3 – Convergent Evolution | * SWBAT define convergent trait * SWBAT describe the existence of convergent traits based on lineages that independently evolve similar adaptations, as illustrated by an evolutionary tree * SWBAT identify potential convergent traits from anatomical images and specimens * SWBAT draw diagrams from images or specimens, labeling potential convergent traits | MS-LS4-2 |

GRADE 6

6.MS-LS4-2. Construct an argument using anatomical structures to support evolutionary relationships among and between fossil organisms and modern organisms.

Clarification Statement:

* Evolutionary relationships include (a) some organisms have similar traits with similar functions because they were inherited from a common ancestor, (b) some organisms have similar traits that serve similar functions because they live in similar environments, and (c) some organisms have traits inherited from common ancestors that no longer serve their original function because their environments are different than their ancestors’ environments.