

Lesson Plan

Osteology

Class Duration: 1 hour

Tour Duration: 1 hour

Goals: Students contrast and compare skeletal structures of various animals. Focus on skull structure, tooth shape, adaptations for carnivores, herbivores omnivores and cats in detail.

Supplies:

- Mammal dental formula sheets
- Skulls

Education:

_____ Introduce niches of animals with respect to food (herbivore/carnivore/omnivore)

_____ Define osteology

_____ Discuss various teeth types and their function

_____ Compare the length of human canines to other animals

_____ Discuss special teeth and skull adaptations necessary for diet

_____ View and discuss different skulls for adaptations

_____ Discuss dental formulas and have students do a couple in groups

_____ Take tour of on-site cats; observe and discuss their skull shapes & teeth

SCIENCE STANDARDS: 1.2d, 2.4b, 3.5c, 6.5a, 6.5b

Common Core: K.CC, 2.OA, L.2.3, W.2.8, L.2.4, SL.2.1, SL.2.3, SL.2.2,

NGSS STANDARDS:

3.MD.B.4, 4-LS1-1, RI 3.7, RI 4.7, RI 5.7, WH ST.6-8.9, 6.RP.A.1, 6.SP.B.5,