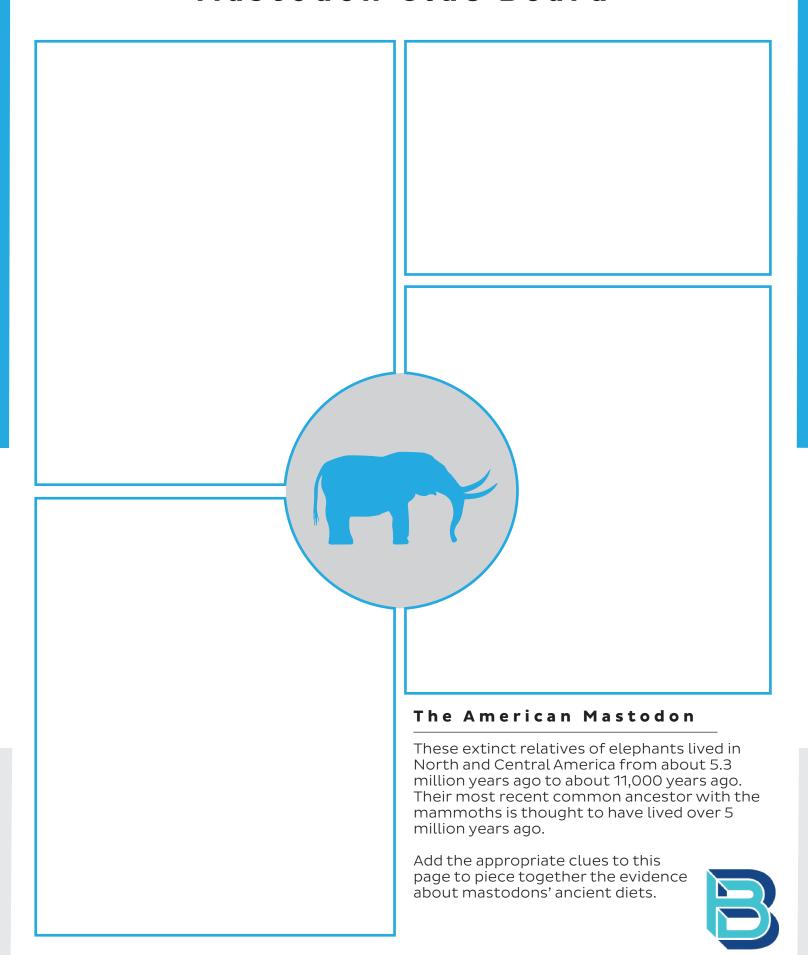
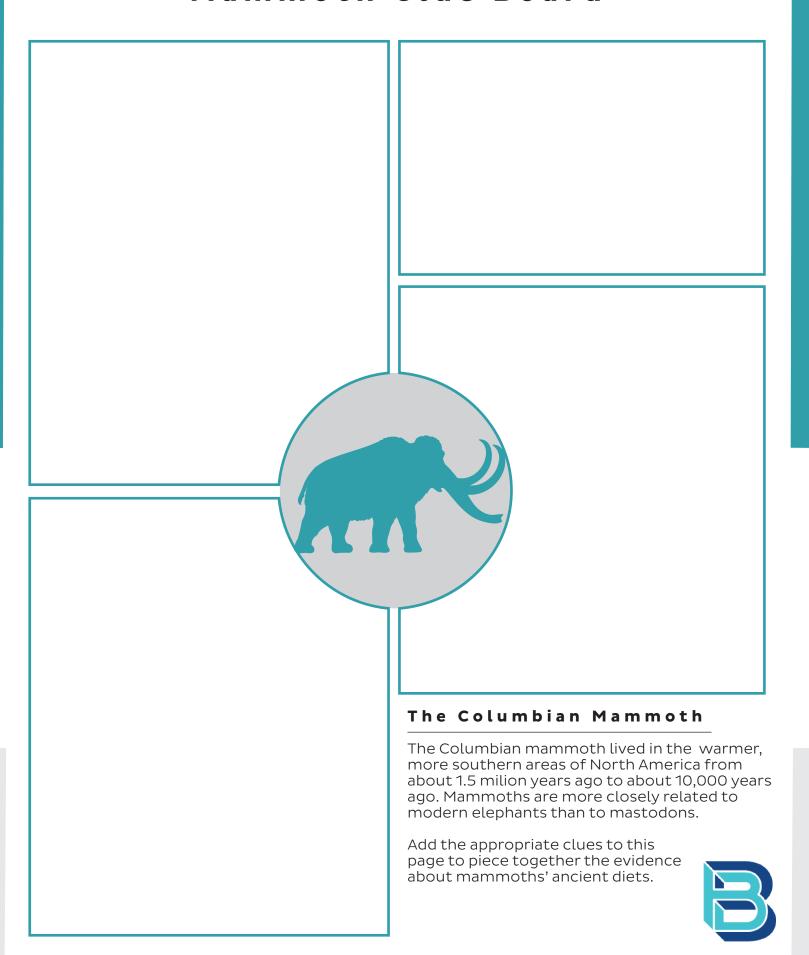
## Mastodon Clue Board



## Mammoth Clue Board



## Deciphering Diets Preserved Clues



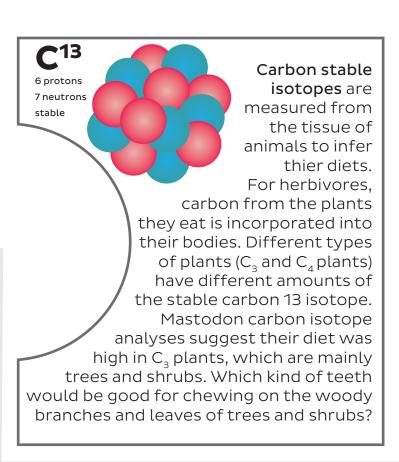
Teeth can provide evidence of the type of food eaten for all kinds of animals. In herbivores, the molars are important for breaking down all that plant matter. High-crowned molars with many closely-spaced ridges are more resistant to the tough, sandy grasses eaten by grazers. Scientists also look at microscopic wear patterns on teeth as evidence of what foods were eaten. Many scratches on the surface of teeth indicate that they ate tough, gritty foods.



discoverynews.com

What's the scoop from poop?

Preserved dung from these animals has been found in multiple locations. As you might imagine, this dung tells us so much about what the animals were eating. Scientists found grasses, leaves, seeds, small tree branches, buds, cactus spines, spruce needles, and pollen in the dung. They also found fungi inside the dung, a type that typically grows on the outside of old dung. This suggests these animals also ate dung, known as coprophagy. Elephants do this, too!





Teeth can provide evidence of the type of food eaten for all kinds of animals. In herbivores, the molars are important for breaking down all that plant matter. Widely-spaced cusps on the molars enhance the teeth's ability to break down the woodier plants eaten by browsers. Scientists also look at microscopic wear patterns on teeth as evidence of the diet. Many pits on the surface of the teeth indicate a diet high in woody plants or seeds.

## Deciphering Diets Preserved Clues

Print and cut out these clues, and match them to either the mammoth or mastodon clue board to gather evidence about the diets of these extinct elephant relatives that roamed North America.

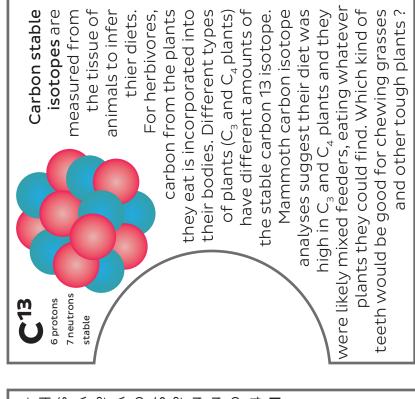
What are some differences and similarities between the two?

What information are we still missing? How can we find it out?

Body size can help us to infer the diets of mammoths and mastodons based on their habitats.

Mastodons were saier to move through wooded areas with closely-spaced trees and shrubs.

Mastodons also had shorter, straighter tusks better suited to wooded areas.



seeds, suggesting that these animals wetlands. They also found whole gourd animals mostly browsed in cypress was cypress twigs. This suggests these Scientists found material from 57 species about what the animals were eating. on the Aucilla River (the river in which our found in Florida at the Page-Ladson site of plants in the dung; however, most of it mastodon Priscilla was found!). As you Preserved dung from these animals was helped to disperse these plants before might imagine, this dung tells us so much they were domesticated by humans westernsciencecenter.org simulated dung from poop? the scoop What's

Body size can the to infer the diets of mammoths and mastodons based on their habitats.

Mammoths were larger than mastodons and had larger, more curved tusks. These traits would have been advantageous in fighting and in digging up grasses and low-growing plants in open areas.