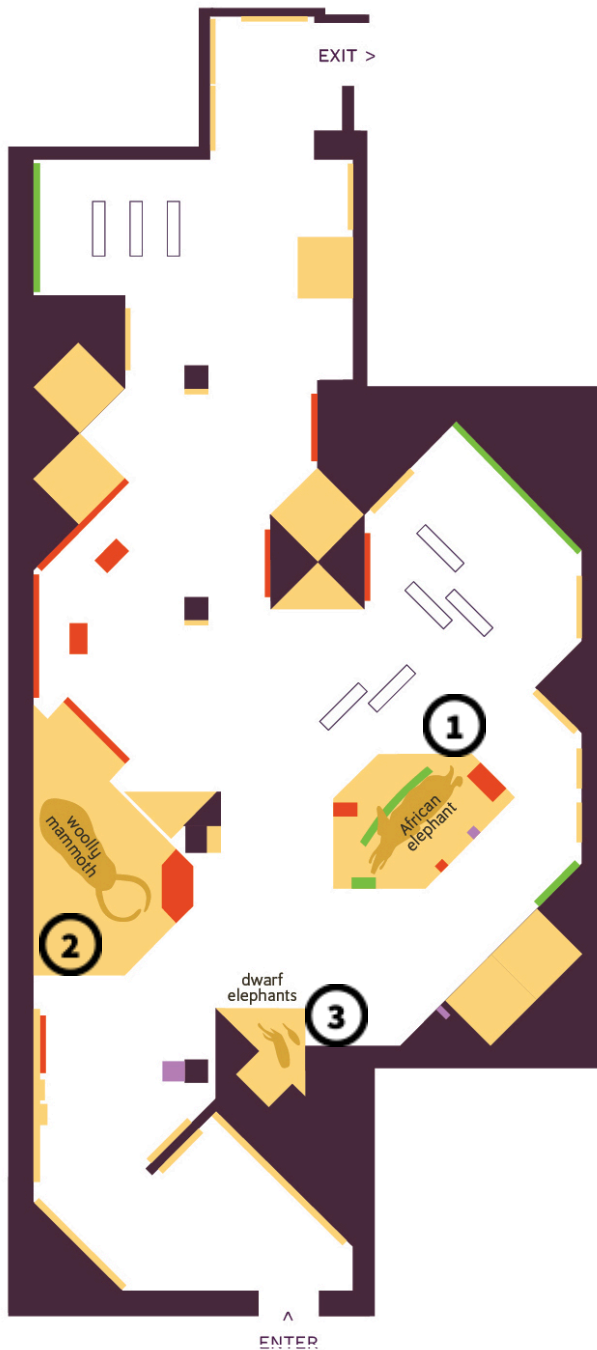


# Student Worksheets

You will visit life-size models and fossils in the exhibition to observe elephants and their relatives and explore the environments in which they lived. Using your observations and the supporting text, describe how the animals' physical traits are adapted to the conditions of their habitats.



**STOP 1 African Savanna Elephant**

**ALIVE TODAY**

**Draw** how tall you are relative to this animal.

**Observe** the large banner on a wall near the model. **Describe** the environmental conditions of this animal's habitat:

*Answers may include: big ears for cooling off; sparse hair for cooling down and sun protection; trunk for drinking and pulling down branches; tusks for digging and defense*

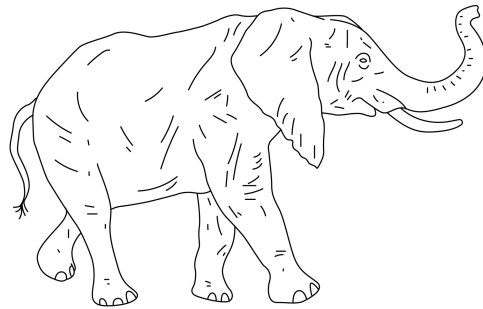
*Answers may include:*

*Hills in background*

*Hot, dry*

*Grassy, flat plains*

*Dry shrubs*



How are this animal's physical traits (e.g. body size, ears, tusk, trunk, hair) adapted to these conditions?

**Note** them on the drawing.

**STOP 2 Woolly Mammoth**

**EXTINCT**

**Draw** how tall you are relative to this animal.

**Observe** the painting behind the model. **Describe** the environmental conditions of this animal's habitat:

*Answers may include: fur for staying warm and camouflage; tusks for scraping bark; trunk for drinking water and pulling down tree branches*

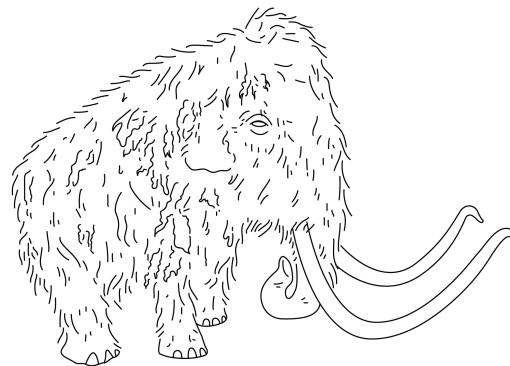
*Answers may include:*

*Stream*

*Springtime*

*Pine trees, flowers*

*Mountains in background*



How are this animal's physical traits (e.g. body size, tusk, trunk, ears, hair) adapted to these conditions?

**Note** them on the drawing.

**BONUS:** Explore the nearby tusk interactive to see how scientists determine where one woolly mammoth lived and the conditions of its habitat.

**STOP 3**

**Dwarf Elephant and Straight-Tusked Elephant**

**EXTINCT**

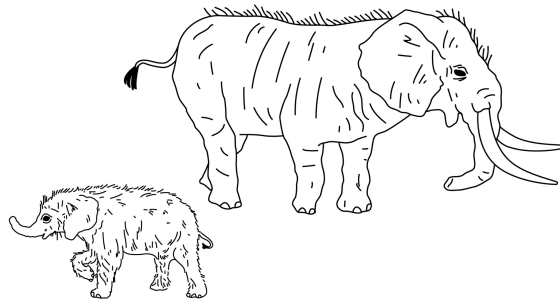
**Observe** the two life-sized models of dwarf elephants. They show a fully-grown adult and a baby.

**Draw** how tall you are relative to these animals.

**Label and note** the following on the drawing:

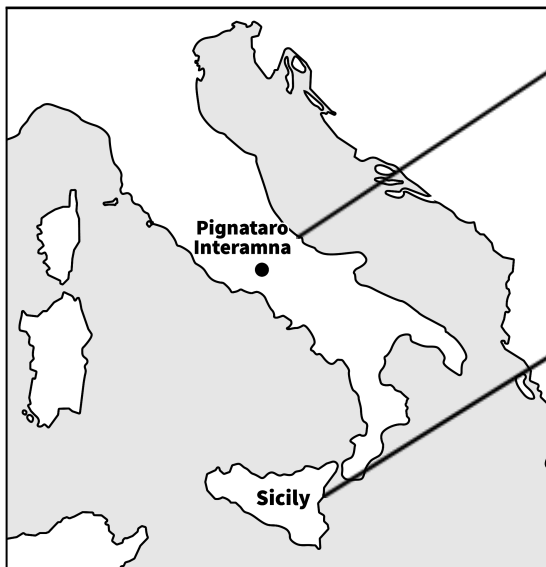
- What stands out to you about their physical traits?
- What questions do you have about these traits?

*Answers may include: trunks for drinking and snorkeling while swimming; tusks for digging for food and fighting other males; ears for cooling off; hair for keeping warm at birth and keeping cool as adult, and sun protection*



**Observe** the two fossil skulls next to the models. One skull was found on the mainland of modern day Italy. The other fossil was found on a nearby island. **Read** about the species each fossil represents.

**Note** the age of each fossil.



Species represented by fossil found in **Pignataro Interamna**:  
 Common name: straight-tusked elephant  
 Scientific name: *Palaeoloxodon antiquus*  
 Age of the fossil: 800,000 years old

Species represented by fossil found in **Sicily**:  
 Common name: dwarf elephant  
 Scientific name: *Palaeoloxodon falconeri*  
 Age of the fossil: 450,000 years old

**Compare** the fossil skulls and **read** the text below them. Even though these two species are very closely related, why is one species so big and the other so small? **Write** or **draw** about it:

*Answers may include:*

- *The larger species swam from the mainland to the island.*
- *Islands have limited space, water and food, making it hard for giant animals to survive.*
- *Because of a lack of predators on the island, smaller offspring were more likely to survive and multiply.*
- *In each generation, the smallest offspring did better than their larger sibling, until a lineage of dwarf elephants eventually evolved.*