

## Segment 2 - Earth Systems, Weather, and Organisms

**Integrated Phenomenon:** When a person takes a dog on a long walk in the summer, you might see that the person is sweating but the dog is panting. Create an initial model to explain this phenomenon.

### Weather

**Anchoring Phenomenon:** Severe weather events can lead to extreme loss of life and property.

6 **Air Pressure and Wind**

Phenomenon: Some days are windy, and some are not.

7 **Water and the Weather**

Phenomenon: When warm air rises and then cools, clouds form in the sky.

8 **Air Masses and Changing Weather**

Phenomenon: Suddenly on a warm day, a cool wind begins to blow, clouds form, and the temperature drops by ten degrees.

9 **Severe Weather**

Phenomenon: There are more tornadoes in the Great Plains than anywhere else in the United States.

**Performance Assessment: Severe Weather Action Plan**

Anchoring Phenomenon: Severe weather events can lead to extreme loss of life and property.

### Traits

**Anchoring Phenomenon:** Organisms have unique physical and behavioral traits that help them survive.

10 **Traits for Survival**

Phenomenon: Humans have opposable thumbs, but turtles do not.

11 **Traits for Reproduction**

Phenomenon: The blue-footed booby has bright blue feet that the males show off by strutting in front of the females.

**Engineering Challenge: Designing a Seed Dispersal Device**

**Performance Assessment: Planning a Trait Trek to Madagascar**

Anchoring Phenomenon: Organisms have unique physical and behavioral traits that help them survive.

### Bodies

**Anchoring Phenomenon:** People become sick when body systems don't function properly.

12 **Interacting Body Systems**

Phenomenon: Doctors know generally what is inside a living person's body without having to cut them open.

**Engineering Challenge: Designing a Prosthetic Hand**

13 **Levels of Organization**

Phenomenon: Body systems, like the skeletal system, are made of smaller and smaller parts.

14 **Controlling Body Systems**

Phenomenon: Sometimes people lose their sense of balance or memory.

**Performance Assessment: Diagnosing JJ**

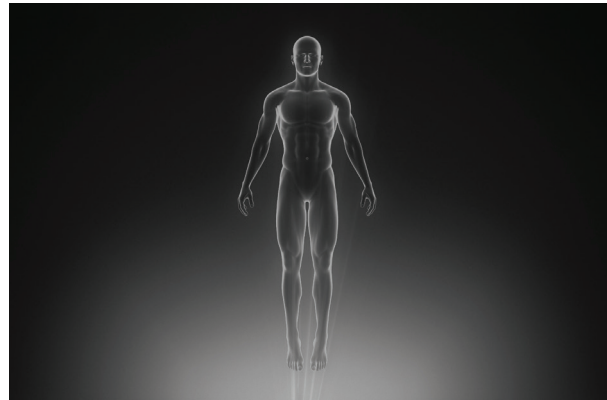
Anchoring Phenomenon: People become sick when body systems don't function properly.

## Segment Wrap Up

Return to the model created at the beginning of the segment, and revise it based on what you learned about weather, traits, and bodies.

**ANCHORING PHENOMENON**

**Anchoring Phenomenon:** People become sick when body systems don't function properly.



1. Complete the first two columns of this chart.
  - List what you think you already know about this unit's phenomenon.
  - Then write at least three questions you have about this phenomenon.

Return to this chart at the end of the unit. Add the key information you learned about this phenomenon. Give evidence!

<b>Know</b>	<b>Want to Know</b>	<b>Learned</b>