



Food Webs in the Corridor



1. A Complex Food Web and Trophic Cascade

Watch the video [“Wolves of Yellowstone”](#) (5:19) and listen for:

- What is a keystone species, and what is the example of one in the Yellowstone ecosystem?
- What is one negative impact of the missing wolves in Yellowstone?
- What is one positive impact of the reintroduction of wolves into Yellowstone?



2. A Complex Food Web and Trophic Cascade

Discuss:

- How does the presence of a keystone species impact the food web within the ecosystem?
- How does a trophic cascade influence other species in a complex system?
- What are examples of keystone species in Florida?
- What are examples of Florida ecosystems that may be susceptible to ecological change and trophic cascade?





3. Camera Traps
and Ecological
Interactions

4. *How is the
trophic
relationship, or
flow of energy,
represented in
this photo?*



5. Camera Traps and Ecological Interactions

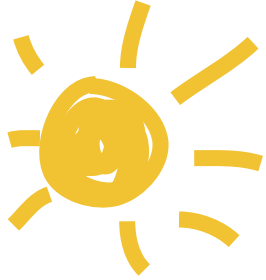
Watch the video “Wildlife by Camera Trap” (1:35) and identify:

- primary producers
- primary consumers
- secondary consumers
- tertiary consumers



8. Construct Food Chains and Food Webs

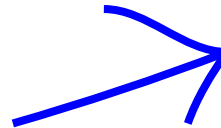
food chain



American
beautyberry



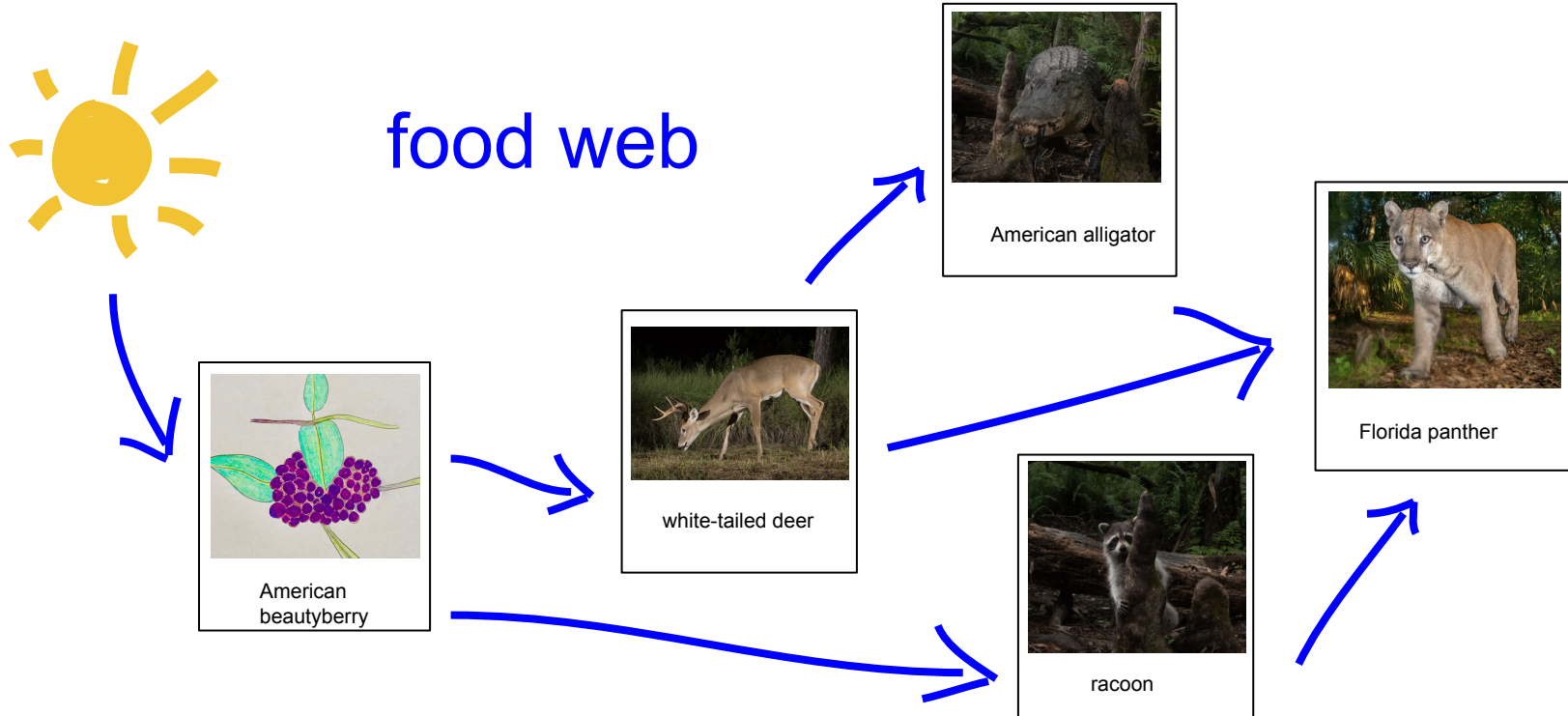
White-tailed deer



Florida panther



9. Construct Food Chains and Food Webs



12. Use Evidence to Support a Claim

*The claim “**Changes in the ecosystem can result in changes in the number and kinds of organisms in that ecosystem**” is supported by evidence because . . .*



13. Connect to the Florida Panther

A South Florida deer study put GPS tracking collars on more than 100 white-tailed deer to better understand the sources of mortality. As suspected, panthers were proven to be the leading cause of death for deer in the region. A specialized silent camera system used invisible infrared light to produce black and white photos at a deer cache site.



A large male panther, clearly mature in age from his textured face and worn canine teeth, chewing the carcass in early morning light, one of the last photos captured after more than two nights of feeding. *Path of the Panther*, p. 65.



14. Connect to the Florida Panther

Describe one **trophic cascade effect** that could result from extinction of the Florida panther in its ecosystem.

