

# Resilient Ecosystem Activity

As a new expert in ecosystems, food webs, and energy transference, you know how important it is to live in an ecosystem that can withstand challenges. As we learned in our Keystone Species Card Activity, events that impact certain organisms in our ecosystems can have huge effects on the entire food web. These effects can range from shifts in food accessibility, species extinction, and even complete ecosystem collapse!

Today, your job is to use your knowledge to design a resilient ecosystem that can withstand potentially harmful events. Using your Oak Woodlands Ecosystem Cards, work with your team to draw your ecosystem, creating the strongest food web possible. Once your ecosystem is designed, your teacher will introduce scenarios with which you will test and assess the strength of your ecosystem's food web.

**Good Luck!**

**Directions:** Using your Oak Woodlands Species Cards, design a resilient ecosystem that meets the requirements below:

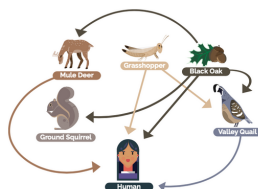
- At least 1 of each Oak Woodlands species
- On the back of this sheet, label the number of how many of each species lives in your ecosystem (the exact number doesn't need to be accurately represented in your ecosystem as long as you have at least one)
- Lines/arrows marking energy transference
- A sun and waterways

## Helpful materials:

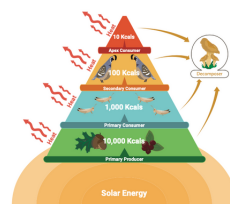
Oak Woodlands  
Species Cards



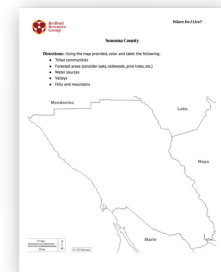
Keystone Species  
Food Web



Energy Transfer  
Pyramid



Where Do I Live map



**Be prepared** to explain why you think your ecosystem has a strong food web. Include vocabulary like *biodiversity*, *consumer*, *producer*, *predator*, and *prey*.

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Species	#	Species	#
Coyote		Red Clover	
Human		Blackberry	
Deer		Manzanita	
Quail		Oak Tree	
Grasshopper		Mushrooms	
Butterfly		Brome Grass	
Squirrel			