



MAKING A MODEL OF THE FOOD CHAIN IN A SPECIFIC BIOME



Name: _____ Date: _____



GOAL

To create a model that shows a food chain in a specific biome and explains how energy moves from one organism to another.



BACKGROUND

A food chain shows how energy flows from the sun to producers (plants), then to consumers (animals) as one organism eats another. Different biomes have different plants and animals, but all food chains start with energy from the sun.



CHOOSE A BIOME

Pick one biome for your model:

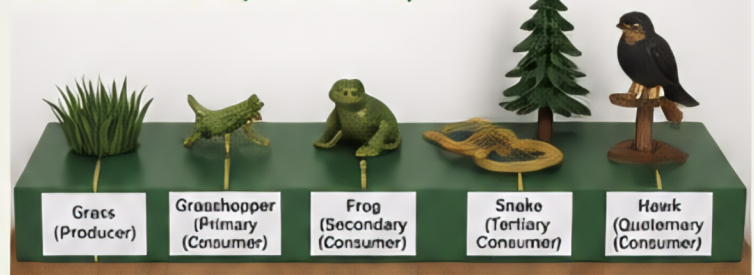
- | | |
|------------------------------------|----------------------------------|
| ☐ Forest | ☐ Desert |
| ☐ Grassland | ☐ Tundra |
| ☐ Ocean | ☐ Wetland |



MATERIALS

- Box or tray (for your model base)
- Construction paper or cardstock
- Markers, crayons, or colored pencils
- Clay, playdough, or small figurines (optional)
- Toothpicks or small sticks
- Labels or small paper flags
- Glue or tape
- Scissors
- Printed pictures (optional)
- Research materials (books or internet)

EXAMPLE MODEL (Forest Biome)



Grass → Grasshopper → Frog → Snake → Hawk
(Energy flows in the direction of the arrows.)

PART 1: PLAN YOUR FOOD CHAIN

1. List the organisms in your food chain. Make sure to include a producer and at least three levels of consumers.

Level	Role	Organism	What does it eat?
1	Producer		
2	Primary Consumer		
3	Secondary Consumer		
4	Tertiary Consumer		
5	Quaternary Consumer (optional)		

2. Draw arrows to show the flow of energy in your food chain.

_____ → _____ → _____ → _____

PART 2: BUILD YOUR MODEL

1. Create your biome background in the box or tray.
2. Add each organism in the correct order.
3. Label each organism with its name and role (producer, primary consumer, etc.).
4. Add arrows between organisms to show the flow of energy.
5. Add any extra details that show your biome (plants, water, rocks, etc.).



CHALLENGE (Optional)

Add a decomposer (like mushrooms or bacteria) to your model. How do decomposers help the ecosystem?

PART 3: REFLECT

1. Why is the producer important in the food chain?

2. What would happen if one of the organisms in your food chain disappeared?

3. What did you learn from making this model?



SCIENCE CONNECTION: All living things are connected. When energy flows, life can continue!