

Food Web Arrows Show Energy Transfer



Use the matching sheet ID when checking answers.

Use the material to work through each task. Show the requested response.

1. Which organism is the producer in this model?

Answer: grass

2. In rabbit → fox, which organism receives energy from the other?

Answer: fox

3. Write the energy path from grass to bird.

Answer: grass → grasshopper → bird

4. If grass availability falls, what possible effect might occur?

Look for:

- Uses the modeled relationship.
- Does not claim an inevitable population result.

One possible response: Less food may be available for rabbits and grasshoppers.

5. Draw the two paths with correctly directed arrows.

Look for:

- Keeps direction and organisms accurate.

One possible response: Both paths follow food source to consumer.

6. Why does this web not explain every change in the meadow?

Look for:

- Recognizes the model's limited scope.

One possible response: Other food sources, organisms and conditions are omitted.

Open responses use criteria and an illustrative response. Other well-supported responses can be acceptable.