

Activity 4.4.1 Eat or Be Eaten

Conclusion

1. Why are all organisms important in an ecosystem?

To maintain homeostasis in the ecosystem, each organism relies on one another to create balance. They are interconnected.

2. Explain the effects of second and third order consumers on plant materials required in a food chain.

Second level consumers eat plants helping to control plant population, third order consumers eat both plants and second level consumers also helping to control plant population as well as second level population

3. Describe the flow of energy through an ecosystem.

Each organism level requires 10x the amount of energy than the one above it, for example on the highest level (4th) the wolf needs 100 calories while the lowest level (plants) need 100,000 calories. Plants create their own energy, in turn providing energy for second and third level consumers, the second and third level consumers are consumed by fourth level consumers.