

**Worksheet answers**

1. What numbers of each species, and what conditions were needed to produce a balanced food chain?

*Answers will vary.*

2. Was it easy to balance the food chain? Were you surprised by changes you had to make to balance it? Explain.

*Answers will vary.*

3. In nature we can't manipulate numbers of species. What would happen in an area where there were too many quolls for the number of frogs available?

*All frogs would be killed by quolls, then quolls would die due to lack of food, assuming there were no other species for them to eat.*

4. In this game the number of pieces of popcorn available rapidly decreased during a round. What happens to wildlife in areas where all plants get eaten? For example, after a plague of grasshoppers?

*Vegetation is destroyed. This can lead to the death of animals in an area as there is nothing for those at the bottom of the food chain to eat.*

5. What impact did the introduction of cane toads have on the number of animals in the other species?

*Answers may vary but numbers of quolls should decrease dramatically. This may lead to an increase in the number of frogs that stay alive and a decrease in the number of grasshoppers.*