

# 5 2 species interactions worksheet answers

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Competition and Species Tolerance\*\*

### **Generalist and Specialist Species**

It is false that organisms with wide tolerance ranges are called specialists. Specialists are organisms that are adapted to a narrow range of habitats or resources, while generalists are organisms that can use a wide array of habitats or resources.

### **Resource Partitioning and Competition**

Resource partitioning is an adaptation to competition in which two or more species use different resources or use the same resource at different times or in different ways. This reduces competition and allows the species to coexist.

### **Interactions Between Organisms**

Mutualism is a close relationship between organisms of different species in which at least one of the organisms benefits.

Commensalism is an interaction in which one organism benefits and the other is neither helped nor harmed.

### **Species Tolerance and Competition**

Specialist species typically have a narrower range of tolerance than generalist species. This is because specialists are adapted to specific conditions, while generalists are more adaptable.

### **Tolerance Range and Organism Health**

If an organism exceeds the range of tolerance for a particular factor, such as temperature or moisture, it will experience stress and may eventually die.

### **Resource Partitioning and Interspecific Competition**

Resource partitioning is a way for species to reduce interspecific competition, which is the competition between species for the same resource.

### **Methods of Competition**

Species compete with each other for resources through three main methods: interference, exploitation, and apparent competition.

### **Ecological Succession**

Ecological succession is the gradual change in living communities that follows a disturbance.

### **Carrying Capacity**

The carrying capacity is the maximum population that an ecosystem can support indefinitely.

### **Symbiosis**

Symbiosis is a close relationship between organisms of different species in which at least one of the organisms benefits.

### **Competition for Resources**

Organisms compete for four main types of resources in a habitat: food, water, shelter, and mates.

### **Outcomes of Competition**

The likely outcomes from competition between species for a limited resource include: competitive exclusion, character displacement, niche differentiation, and coexistence.

### **Mutualism**

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Mutualism is a mutually favorable interaction between organisms.

### **Invasive Species**

Invasive species are often generalists, as they are able to adapt to a wide range of habitats and resources.

### **Advantages of Generalist and Specialist Species**

Generalist species are advantaged in habitats that change constantly, while specialists are advantages in habitats that remain more constant.

### **Habitat Loss and Generalist Species**

Habitat loss can negatively affect generalist species, as they may lose access to the resources they need to survive.

### **Below Optimal Range of Tolerance**

If a species goes below its optimal range of tolerance, it will experience stress and may eventually die.

### **Genetic Diversity and Tolerance**

Greater genetic diversity within a population can increase the range of tolerance for that population.

### **Habitat and Niche**

Habitat is the physical environment in which an organism lives, while niche is the specific role that an organism plays in its ecosystem.

### **Niche Competition**

When two species try to fill the same niche, one species will typically outcompete the other and the other species will become extinct.

### **Types of Interspecific Competition**

The two types of interspecific competition are interference competition and exploitation competition.

### **Reducing Interspecific Competition**

Interspecific competition can be reduced through resource partitioning, niche differentiation, and character displacement.

### **Organisms with Wide Tolerance Range**

An organism having a wide range of degree of tolerance is called a eurytolerant organism.

### **Range of Tolerance**

The range of tolerance of a species is the range of conditions within which the species can survive.

### **Organisms and Tolerance Ranges**

Organisms with wide tolerance limits for various environmental factors show a wide range of distribution.

### **Species Tolerance Range**

Each species has a tolerance range for a particular abiotic factor.

### **Competition and Community Structure**

Competition shapes communities by determining which species can coexist and how abundant they are.

### **Optimum Range of Tolerance**

The optimum range of specie tolerance in an ecosystem implies that the species is most successful within this range.

### **Determining Tolerance Range**

Tolerance range can be determined by measuring the response of an organism to different conditions.

### **Fire-Dependent Biomes**

Fire-dependent biomes include grasslands, savannas, and chaparral.

### **Tolerance Limit**

The tolerance limit of an organism is the point at which it can no longer survive.

### **Range of Tolerance in a Species**

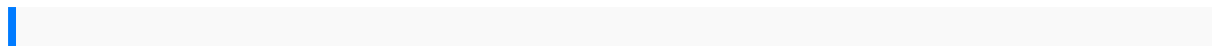
The range of tolerance in a species is the range of conditions within which the species can survive and reproduce.

### **Organism with Lowest Range of Tolerance**

Organisms that can survive within a specific limited range of temperature have the lowest range of tolerance.

### **Tolerance Range Disruption**

When the tolerance range for an organism is disrupted, the organism will experience stress and may eventually die.



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