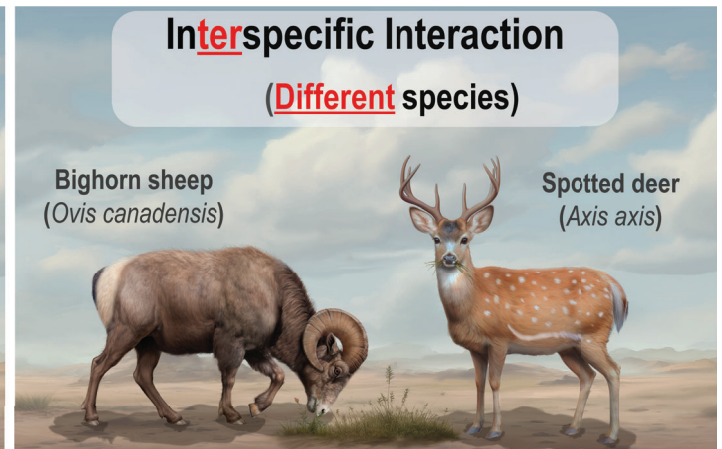
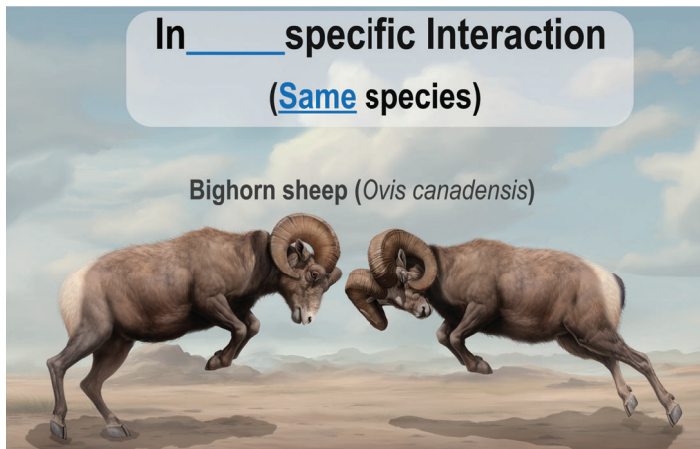


TOPIC: INTRODUCTION TO COMMUNITY INTERACTIONS

Introduction to Community Interactions

◆ **Community Interaction:** relationship between ≥ 2 organisms in a community (can be *intraspecific* or *interspecific*).

- **Intra**specific: occurs between organisms of the _____ species (“**TRA**pped” within species).
- _____ specific: occurs between organisms of _____ species (*primary focus of our lesson).







PRACTICE

Which of the following resources is unique to *intraspecific* interaction?

- a) Food availability. b) Space/shelter. c) Sunlight. d) Access to a mate for breeding.

Overview: Types of Community Interactions

- ◆ Community interactions can have a positive (___), negative (___), or neutral (___) effect on an organism's fitness.
- There are _____ primary types of community interactions.

1) Competition (-/-)	2) Exploitation/Consumption (+/-) - Predation - Herbivory - Parasitism	Positive Interactions	
		3) Mutualism (+/+)	4) Commensalism (+/0)
			

NOTE: The type of interaction is subject to _____ over time.

TOPIC: INTRODUCTION TO COMMUNITY INTERACTIONS

EXAMPLE

Suppose you remove species A from a community, which you notice reduces the fitness of species B.

After introducing species A back into the community, you then remove species B and find that it has no significant impact on the fitness of species A. What is the relationship between species A & species B?

- | | |
|-----------------|--|
| a) Mutualism. | c) Commensalism, where species B benefits while species A is unaffected. |
| b) Competition. | d) Commensalism, where species A benefits while species B is unaffected. |

PRACTICE

Which of the following statements is true?

- a) An interaction where both organisms benefit is called competition.
- b) An interaction where neither organism benefits is called mutualism.
- c) In mutualism, only one organism benefits.
- d) The type of interaction between two organisms is potentially subject to change over time.