Breeding For Survival



Objective

The student will correlate manatees into prospective breeding groups given studbook information.

Materials

six copies of Manatee Name Cards cut into individual sets of cards

Background

When developing captive breeding programs, zoological specialists and keepers make the best matches between animals by studying studbook information. A studbook is a comprehensive record of all births, deaths, and interinstitutional transfers of a particular species. This record helps keepers avoid inbreeding individuals by tracking related animals. Studbooks can also tell about each animal's personality and what individuals they do and don't get along with. The U.S. Fish and Wildlife Service currently has a moratorium on breeding manatees in captivity. However, this exercise provides a hands-on manatee management scenario.

Action

- Begin the activity with a class discussion on breeding animals in captivity. What measures would ensure success? What problems would keepers want to avoid?
- 2. Divide the class into groups of five to six students. Tell them they're to be manatee keepers responsible for developing a new breeding program.
- 3. Give each student group a set of Manatee Logic cards and Manatee Name cards.
- Tell students to use cards to place manatees into three breeding groups, each containing at least one male and four to five females. Use name cards to form groups; use logic cards to ensure individuals are compatible.
- When students have finished, review their groupings and allow discussion between groups as to why their breeding groups would or would not be good choices. (There may be more correct choices than those in the Answer Key.)

Deeper Depths

Continue this activity by developing a Species Survival Plan (SSP). SSP is a program for managing captive populations of certain threatened or endangered animals. Plans include an education component, breeding plan, animal care plan, and reintroduction plan. Learn more at the Association of Zoos & Aquariums website.



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A1	A2	A 3
Rube(M)	Dock(M)	Bink(M
Sheba	Lotus	Oma
Bea	Blossom	Cleo
Ruby	Isis	Dawn
Skipper	Dolly	Star
Rock	Reva	Oscar
Ethel	Delta	Rosie
B1	B2	В3

Rube(M) Dock(M) Bink(M)
Lotus Dolly Skipper

Lotus Dolly Skipper Blossom Rosie Rock

Oscar Oma Bea

Ruby Star Isis

Sheba Cleo Reva

Dawn Ethel Delta

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Manatee Name Cards

Ethel Manatoe Name Cards	Delta Manatec Name Cards	Rosie Manatec Name Cards
Oma Manatee Name Cards	Star Manatee Name Cards	Dolly Manatee Name Cards
Cleo Manatee Name Cards	Bea Manatee Name Cards	Dawn Manatee Name Cards
Sheba Manatee Name Cards	Isis Manatee Name Cards	Reva
Blossom Manatee Name Cards	Ruby Manatee Name Cards	Lotus Manatee Name Cards
Dock (M) Manatee Name Cards	Rube (M) Manatee Name Cards	Oscar (M) Manatee Name Cards
Bink (M) Manatee Name Cards	Rock (M) Manatee Name Cards	Skipper (M) Manatee Name Cards

Manatee Logic Cards

Skipper and Rock don't get along with Oscar Manatee Logic Cards	Skipper is Lotus' son	Blossom is so young, she needs to stay with Lotus Manatee Logic Cards
Dock is aggressive toward all other males	Rock is an immature male	Oscar is an immature male
Skipper is an immature male	Dawn is Dock's daughter	Ruby and Bea are aggressive toward Dock Manatee Logic Cards
Ruby and Dolly don't get along	Sheba is Dock's daughter	Sheba and Bink were unsuccessful at breeding with one another