## Investigation Booklet — ANSWERS Exploring the Role of Isolated Populations in Inbreeding

	EXAMPLES OF INBREEDING IN WILD AND	D DOMESTIC ANIMALS
	Why has inbreeding occurred?	Describe the related health problems
Domestic Dogs	Dogs have been selectively bred for desired traits like herding, fetching & tracking skills.	Hip, elbow, heart, and eye problems.
Florida Panthers	Overhunting and habitat loss has led to a population of 70 panthers in South Florida.	Heart defects and abnormal sperm.
Thoroughbred Horses	Horses have been inbred for speed.	Broken bones and reproductive problems.
	EXAMPLES OF INBREEDING	IN PEOPLE
	Why has inbreeding occurred?	Describe the related health problems
Hapsburg Family	In order to keep pure bloodlines and concentrate power first cousins, uncles, and nieces were commonly married.	The Hapsburg Jaw – where the lower jaw grows longer than the upper jaw.
Amish People	This group was founded by a very small group of people, which led to the marriage of closely related people.	Maple Syrup Disease, which can cause seizures, comas, and death.

## Ecology Disrupted:

## **Bighorn Sheep**

1. Why is it important for individuals from different small populations to be able to breed with one another?

If individuals from small populations are not able to breed with individuals from outside the population, eventually the population may become inbred, which increases the likelihood that undesirable traits will occur.