

The Balance of Change

Grade 4 Science

Name:		Date:	
	Activity 1: In the video, we learned a extinct. Passenger pigeons lived nuts in a whole area. One of their town diary.		at all of the seeds and
"April, 175	55		
There was	s a frost so strong that the acor	ns were hurt The cold l	nas lasted for this
entire mor	nth. People here in Carolina sag	y it has been a cold and e	extraordinary winter."
Would t passenger pig	the cold and long-lasting winter of geons?	1755 have been good or ba	d for the population of
How do you know this?			
	-		
	ck of passenger pigeons ate all of t Explain why you think that.	he acorns that survived the	frost, what might happen
"Autumn,	1760		
In the fall there was a most unusual number of wild pigeons here. In many places the			
woods were	e ruined wherever they rested f	for the night."	
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Activity 2:

When the Moravians moved to North Carolina they needed a lot of wood for fire and for building their houses. Animals, like the Carolina parakeet, and the red wolf depended on thick forests for their habitat. The Moravians chose to keep some trees from being chopped down. Why do you think they decided to do this?

Activity 3:

A lot of colonial cooking involved ingredients like shrimp and lobster. But shrimp and lobster both live in the ocean and the Moravians moved to a part of North Carolina that was far away from the sea. Which nearby environment could they explore to find a similar food source?

Circle one:

Grassy Field

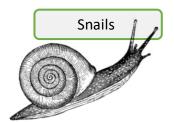
Stream

Forest

Which one of these animals do you think they adapted to eat instead of shrimp?

Circle one:







Activity 4:

Pumpkins and corn were new food to the Moravians. They were introduced to them by the native peoples in the area. Based on what you know about this environment, what would be a good reason to grow these instead of plants from Germany?









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Activity 5:

Read about each of the animals below. Then read about the environment.



Chipmunks live in grassy fields and on the edge of wooded areas. They build burrows underground where they can stay warm and dry and where they can store food for the winter like nuts, seeds, and small insects.



Salamanders are amphibians that live on land and in the water. They hunt for prey like snails, worms, and slugs, which like moist soil. They lay their eggs in still areas of water so they don't get washed away by the current.



River Otters live near areas of free - flowing water where they hunt for swimming prey like fish, frogs, and crayfish. They live in dens along the river bank with underwater entrances. This protects them from predators like coyotes.

The environment in this area used to be a forest with a free-flowing stream running through it. Recently, beavers have moved in and blocked the flow of the stream with their dam. This has flooded the area and turned it into a swamp, with still water and many puddles that fill up when it rains. Now the seeds and young trees drown before they can grow while older trees fall over and decompose quickly in the wet environment. These decomposing stumps are full of moist soil, fungi, and organisms like worms and beetles.

Which of these animals is most likely to benefit from this change and why?





