

Lake Farmpark Grade Level Indicators

Second Grade	Ice Cream	Pizza Farm	Grist for the Meal	Bark Dwellers	Animals and People	Crops and Critters	Barryard Goes to School <small>(outreach)</small>	Biodiversity Bonanza <small>(outreach)</small>	Ice Cream (outreach)
Earth									
1. Recognize that there are more stars in the sky than anyone can easily count.									
2. Observe and describe how the Sun, Moon and stars all appear to move slowly across the sky.									
3. Observe and describe how the Moon appears a little different every day but looks nearly the same again about every four weeks									
4. Observe and describe that some weather changes occur throughout the day and some changes occur in a repeating seasonal pattern.		X	X		X				
5. Describe weather by measurable quantities such as temperature and precipitation.									
Life									
1. Explain that animals, including people, need air, water, food, living space and shelter, and plants need air, water, nutrients (e.g., minerals), living space and light to survive.	X	X	X		X	X	X	X	X
2. Identify that there are many distinct environments that support different kinds of organisms.						X			
3. Explain why organisms can survive only in environments that meet their needs (e.g., organisms that once lived on earth have disappeared for different reasons such as natural forces or human-caused effects).			X			X	X	X	X
4. Compare similarities and differences among individuals of the same kind of plants and animals, including people.	X	X	X		X	X	X	X	X

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Life (Continued)									
5. Explain that food is a basic need of plants and animals (e.g., plants need sunlight to make food and to grow, animals eat plants and/or other animals for food, food chain) and is important because it is a source of energy (e.g., energy used to play, ride bicycles, read, etc.).	X	X	X		X	X	X	X	X
6. Investigate the different structures of plants and animals that help them live in different environments (e.g., lungs, gills, leaves and roots).	X	X	X			X	X	X	
7. Compare the habitats of many different kinds of Ohio plants and animals and some of the ways animals depend on plants and each other.	X	X	X		X	X		X	
8. Compare the activities of Ohio's common animals (e.g., squirrels, chipmunks, deer, butterflies, bees, ants, bats and frogs) during the different seasons by describing changes in their behaviors and body covering.			X		X	X		X	
9. Compare Ohio plants during the different seasons by describing changes in their appearance.	X		X			X	X	X	
Physical									
1. Explore how things make sound (e.g., rubber bands, tuning fork, strings).									
2. Explore and describe sounds (e.g., high, low, soft, loud) produced by vibrating objects.		X							
3. Explore with flashlights and shadows that light travels in a straight line until it strikes an object.									

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Scientific Inquiry (Continued)									
8. Measure properties of objects using tools such as rulers, balances and thermometers.			X						
9. Use whole numbers to order, count, identify, measure and describe things and experiences.	X		X						
10. Share explanations with others to provide opportunities to ask questions, examine evidence and suggest alternative explanations.			X						
Scientific Ways of Knowing									
1. Describe that scientific investigations generally work the same way under the same conditions.	X		X						
2. Explain why scientists review and ask questions about the results of other scientists' work.									
3. Describe ways in which using the solution to a problem might affect other people and the environment.									
4. Demonstrate that in science it is helpful to work with a team and share findings with others.			X			X			
8. Recognize that the Sun is an energy source that warms the land, air and water.	X	X					X		