

GLCE Code	Science and Social Studies Grade Level Expectations Addressed	John Ball Zoo Core Education Topic					
		Body Coverings	Physical Adaptations	Behavior Adaptations	Life Cycles	Animal Essentials	Connections
Kindergarten							
S.IP.00.11	Make purposeful observation of the natural world using the appropriate senses.	X	X	X	X	X	
L.OL.00.11	Identify that living things have basic needs.	X	X	X	X	X	
First Grade							
S.IP.01.11	Make purposeful observation of the natural world using the appropriate senses.	X	X	X	X	X	
L.OL.01.13	Identify the needs of animals.	X	X	X	X	X	
L.OL.01.21	Describe the life cycle of animals including the following stages: egg, young, adult; egg, larva, pupa, adult.		x		X	x	
L.HE.01.11	Identify characteristics (for example: body coverings, beak shape, number of legs, body parts) that are passed on from parents to young.	X	X		X	x	
L.HE.01.12	Classify young animals based on characteristics that are passed on from parents (for example: dogs/puppies, cats/kittens, cows/calves, chicken/chicks).	X	X	x	X		
1-G5.0.1	Describe ways in which people modify (e.g., cutting down trees, building roads) and adapt to the environment (e.g., clothing, housing, transportation)	x	x	x			
Second Grade							
S.IP.02.11	Make purposeful observation of the natural world using the appropriate senses.		X	X	X	X	
2-G5.0.1	Suggest ways people can responsibly interact with the environment in the local community		x	x	x	X	
2-G5.0.2	Describe positive and negative consequences of changing the physical environment of the local community		x	x			
Third Grade							
S.IP.03.11	Make purposeful observation of the natural world using the appropriate senses.		X	X	X	X	
L.OL.03.32	Identify and compare structures in animals used for controlling body temperature, support, movement, food-getting, and protection (for example: fur, wings, teeth, claws).		X	x	X	X	
L.OL.03.42	Classify animals on the basis of observable physical characteristics (backbone, skin, shell, limbs, scales).		X		X	X	
L.EV.03.12	Relate characteristics and functions of observable body parts to the ability of animals to live in their environment (for example: sharp teeth, claws, color, body covers).		X				
E.ES.03.51	Describe ways humans are dependent on the natural environment (forests, water, clean air, earth materials) and constructed environments (homes, neighborhoods, shopping malls, factories, and industry).						
E.ES.03.52	Describe helpful or harmful effects of humans on the environment (garbage, habitat destruction, land management, renewable and non-renewable resources).		x	x	x	x	
3-G5.0.2	Describe how people adapt to, use, and modify the natural resources of Michigan.						

X = Primary objectives addressed in each program x = Secondary objectives that can be addressed upon request

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Fourth Grade							
S.IP.04.11	Make purposeful observation of the natural world using the appropriate senses.		X	X	X		X
L.OL.04.16	Determine that animals require air, water, and a source of energy and building material for growth and repair.		x	x	x		x
L.EV.04.21	Identify individual differences (for example: color, leg length, size, wing size) in organisms of the same kind.		X		x		
L.EV.04.22	Identify how variations in physical characteristics of individual organisms give them an advantage for survival and reproduction.		X		x		x
L.EC.04.11	Identify organisms as part of a food chain or food web.						X
L.EC.04.21	Explain how environmental changes can produce a change in the food web.						X
Fifth Grade							
L.HE.05.11	Explain that the traits of an individual are influenced by both the environment and the genetics of the individual.		X	X	X		x
L.HE.05.12	Distinguish between inherited and acquired traits.		X	X	x		
L.EV.05.11	Explain how behavioral characteristics (adaptation, instinct, learning, habit) of animals help them to survive in their environment.			X			x
L.EV.05.12	Describe the physical characteristics (traits) of organisms that help them survive in their environment.		X				x
Sixth Grade							
L.OL.06.51	Classify organisms (producers, consumers, and decomposers) based on their source of energy for growth and development.						X
L.OL.06.52	Distinguish between the ways in which consumers and decomposers obtain energy.						X
L.EC.06.11	List examples of populations, communities, and ecosystems including the Great Lakes region.						x
L.EC.06.21	Describe common patterns of relationships between and among populations (competition, parasitism, symbiosis, predator/prey).						X
L.EC.06.22	Explain how two populations of organisms can be mutually beneficial and how that can lead to interdependency.						X
L.EC.06.23	Predict how changes in one population might affect other populations based upon their relationships in the food web.						X
L.EC.06.32	Identify the factors in an ecosystem that influence changes in population size.						X

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