

2-LS2-2 Ecosystems: Interact	tions, Energy, and Dynamics			
Students who demonstrate understanding can: 2-LS2-2. Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants.*				
 The performance expectation above was developed Science and Engineering Practices Developing and Using Models Modeling in K-2 builds on prior experiences and progresses to include using and developing models (i.e., diagram, drawing, physical replica, diorama, dramatization, or storyboard) that represent concrete events or design solutions. Develop a simple model based on evidence to represent a proposed object or tool. 	 using the following elements from the NRC document A Fra Disciplinary Core Ideas LS2.A: Interdependent Relationships in Ecosystems Plants depend on animals for pollination or to move their seeds around. ETS1.B: Developing Possible Solutions Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating ideas for a problem's solutions to other people. (secondary) 	 mework for K-12 Science Education: Crosscutting Concepts Structure and Function The shape and stability of structures of natural and designed objects are related to their function(s). 		

	observable reactives of the student performance by the end of the grade.			
1	Components of the model			
	a	udents develop a simple model that mimics the function of an animal in seed dispersal or ollination of plants. Students identify the relevant components of their model, including those omponents that mimic the natural structure of an animal that helps it disperse seeds (e.g., hair at snares seeds, squirrel cheek pouches that transport seeds) or that mimic the natural structure an animal that helps it pollinate plants (e.g., bees have fuzzy bodies to which pollen sticks, ummingbirds have bills that transport pollen). The relevant components of the model include:		
		i. Relevant structures of the animal.		
		ii. Relevant structures of the plant.		
		iii. Pollen or seeds from plants.		
2	Rela	elationships In the model, students describe* relationships between components, including evidence that the developed model mimics how plant and animal structures interact to move pollen or disperse seeds.		
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		 Students describe* the relationships between components that allow for movement of pollen or seeds. 		
		ii. Students describe* the relationships between the parts of the model they are developing and the parts of the animal they are mimicking.		
3	Con	nections		
	а	udents use the model to describe*:		
		i. How the structure of the model gives rise to its function.		
		Structure-function relationships in the natural world that allow some animals to disperse seeds or pollinate plants.		