

Relevant Standards for *China's Great Forests: What the Giant Panda and Earth's Climate Share* Virtual Field Trip

Next Generation Science Standards

Grade	Standard	Performance Expectation	Disciplinary Core Idea 1	Disciplinary Core Idea 2	Disciplinary Core Idea 3
3	3-LS4-3	Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.	LS4.C Adaptations		
3	3-LS4-4	Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.	LS2.C Ecosystem Dynamics, Functioning, and Resilience	LS4.D Biodiversity and Humans	
4	4-ESS3-2	Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.	ESS3.A Natural Resources	ETS1.B Designing Solutions to Engineering Problems	
5	5-LS2-1	Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.	LS2.A Interdependent relationships in Ecosystems	LS2.B Cycles of Matter and Energy Transfer in Ecosystems	
5	5-LS1-1	Support an argument that plants get the materials they need for growth chiefly from air and water.	LS1.C Organization for Matter and Energy Flow in Organisms		
MS	MS-ESS3-4	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.	ESS3.C Human Impacts on Earth Systems		
MS	MS-ESS3-5	Ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century.	ESS3.D Global Climate Change		

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MS	MS-LS2-5	Evaluate competing design solutions for maintaining biodiversity and ecosystem services.	LS2.C Ecosystem Dynamics, Functioning, and Resilience	LS4.D Biodiversity and Humans	ETS1.B Developing Possible Solutions
MS	MS-LS1-6	Construct a scientific explanation based on evidence for the role of photosynthesis in the cycling of matter and flow of energy into and out of organisms.	LS1.C Organization for Matter and Energy Flow in Organisms		

National Geography Standards

- 4 [The physical and human characteristics of places](#)
- 8 [The characteristics and spatial distribution of ecosystems and biomes on Earth's surface](#)
- 11 [The patterns and networks of economic interdependence on Earth's surface.](#)
- 14 [How human actions modify the physical environment](#)
- 15 [How physical systems affect human systems](#)