Gr. 4 – Understanding Life Systems

Habitats and Communities

Twisting and Turning

Specific Expectations:	
2.3 Use scientific inquiry/research skills to invest	igate ways in which plants and animals in a
community depend on features of their habitat t	to meet important needs.
2.5 Use appropriate science and technology voca	abulary, including <i>habitat, population</i> .
community, adaptation, and food chain, in oral a	
3.3 Identify factors that affect the ability of plant	ts and animals to survive in a specific habitat.
3.7 Describe structural adaptations that allow plants	ants and animals to survive in specific habitats.
Big Idea (for lesson):	
	h their environment, and enecifically will
Students will investigate how plants interact with	•
explore how some plants reproduce through me	ans such as producing keys to transport seeds.
Accommodations:	Differentiated Instruction:
☐ Increase time	Content: Use demo to show the content as
∇isual Aids	you offer verbal descriptions.
Manipulatives	Process: Have students work in pairs and
Chunking	support each other if physical impediments
Step-by-Step	exist.
Scaffolding	
	Product: Students may show their final
Copy of Notes	product in pairs, and communicate their
Student Grouping	findings either verbally, visually, or through
	written means.
	Other:
Bloom's Taxonomy:	Multiple Intelligence:
Knowledge	Verbal/Linguistic
Comprehension	
Application	∀ Visual/Spatial
Analysis	⊠ Bodily/Kinesthetic
Synthesis	Naturalist
Evaluation	Musical/Phythmic

Delivering The Lesson:

Interpersonal Intrapersonal

Portion &	Grouping:		ıg:	Introduction:	Materials
Timing					
Minds On:	W	S	I	Teacher can start with a discussion on	
10 mins	\boxtimes			adaptation, and have students try to list some	

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Action: 20 mins	W	S		adaptations that animals have developed. If stuck, a few possible examples to look at are camels (which are tolerant to the dryness of the desert), sloths (which have special claws to hold themselves when they sleep, and to use for eating). Check out the following site for additional examples: http://www.bbc.co.uk/nature/adaptations With this resources, you can talk about the variety of adaptation strategies: adapting to extremes, animal intelligences, behavioural patterns, communication and senses, ecosystem roles, feeding habits, life cycles, locomotion, morphology, predation strategy, reproductive strategy, social behaviour, survival strategy. Have students build their own Twisting & Turning widgets according to the instructions on the handout. Teacher can circulate and ask questions of the different groups: -What sort of things have to be in place in the surrounding environment of a plant for the adaptation of the plant seeds to be successful? (Answers may vary: a very dry or wet season could prevent the seed from sprouting when it falls; overcrowded foliage or abundance of herbivores are also factors; pollution of soil or groundwater; insects that infest the tree and damage the seeds' tails.) -Why do you think some seeds have longer tails or double seeds? (Answer: Perhaps to get a longer flight path so that the seeds get further from the parent plant; some seeds may be doubled to better the chances of one being successfully deposited and planted.) -What are some other ways that a "pod" plant can have its seeds spilled? (Answer: if an animal knocks against it, or a bird/insect lands on the plant.) -Do you see any similarities between a flying	Twisting and Turning Handout (Materials listed)
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Consolidate: 10 mins Varn Food Web Activity: Card labels: frog, mosquito, heron, perch, turtle, crayfish, fallen leaves, maple trees, aquatic plants, sunlight, algae, birds, berries, bears, mushrooms, humans, ferns, snails, bees, minnows: Hand out an activity card to each student, keeping the "sun" card for yourself. There may be some doubles, but this is fine. Have students stand in a circle, and hold out their cards so everyone may see. Holding onto one end of the yarn, throw the wad to another students whose card is affected by the "sun" (should be any of them). Have students continue to do so until the yarn returns to you. While all students are connected, ask them what would happen if all of the perch fish died? Tell the students who are hold the perch to yank their string, and the rest of the students to yank their string when they feel a tug as well. Let this drive home the fact that when even one species becomes extinct or extirpated from the local food web, the other species are affected by this as well. Ask all students with forest-related cards to tug at the same time. Have all students who felt a tug raise their hand. What does this tell us about the importance of the forest ecosystem? How could the other animals adapt to this absence? Ask all students with lake-related cards to tug at the same time. Have all students who felt a tug raise their hand. What does this tell us about the importance of the lake ecosystem? How could marine plants and animals adapt to this loss? Ask a student to please collect the cards and another to roll the string back up.		l	_			
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