

2nd Grade Mystery Science Lesson Scope and

Sequence Strand 2.2 Part 2 Salt Lake City School District 2021-2022

Strand 2.2 Living Things and Their Habitats

Living things (plants and animals, including humans) need water, air, and resources from the land to survive and live-in habitats that provide these necessities. The physical characteristics of plants and animals reflect the habitat in which they live. Animals also have modified behaviors that help them survive, grow, and meet their needs. Humans sometimes mimic plant and animal adaptations to survive in their environment.

Standard 2.2.3 Animal and Plant Relationships

Develop and use a model that mimics the function of an animal dispersing seeds or pollinating plants. Examples could include plants that have seeds with hooks or barbs that attach themselves to animal fur, feathers, or human clothing, or dispersal through the wind, or consumption of fruit and the disposal of the pits or seeds. (LS2.A)

Standard 2.2.4 Design a Solution that Mimics Structure and Function

Design a solution to a human problem by mimicking the structure and function of plants and/or animals and how they use their external parts to help them survive, grow, and meet their needs. Define the problem by asking questions and gathering information, convey designs through sketches, drawings, or physical models, and compare and test designs. Examples could include a human wearing a jacket to mimic the fur of an animal or a webbed foot to design a better swimming fin. (LS1.A, LS1.D, ETS1.A, ETS1.B, ETS1.C)

Date and SEEd Standard	Mystery Science Lesson	Materials and Assessments
February 14	Plant Adventure Unit	Materials per Student:
	Mystery Science Handouts Pdf Pages	See-Think-Wonder worksheet
SEEd Standard 2.2.3	22-49.	Superbloom Cycle printout
Science and Engineering		
Practice: Develop and use a model	Anchor lesson: Superbloom	
Crosscutting Concept:	The anchor phenomenon for this unit is	
Structure and Function	an amazing burst of life in a place	
	fields of flowers suddenly grow in one	
	of the hottest, driest places on Earth?	
February 21		Materials per Student:
	Lesson 1:	Glider printout
SEEd Standard 2.2.3	How did a seed travel halfway	Rotocopter printout
	around the world?	Spinner printout
Science and Engineering		Chair
Practice: Develop and use a model	In this lesson, students will learn how	Scissors
	seeds must get away from their parent	Black construction paper
Crosscutting Concept:	plant to survive. In the activity, Fly Your Own Seed, students create a	Medium binder clips (1 1/4")
Structure and Function	model seed from paper. Then, they	
	release these seeds to model how they	Literature Connection:
	disperse and observe if any seeds can	Newsela Article:
	escape the parent plant's "Zone of	How plants spread their seeds
	Darkness" and survive.	Plant Life: What is a Seed?
		ReadWorks.org
		Seeds need to move
		Assessment:

		Mystery 1: How did a tree travel
		halfway around the world? Answer Key
		rinswer Key
February 28	Lesson 2: Could a plant survivo without	Materials per Student:
SEEd Standard 2.2.3	Louid a plant survive without light?	Cravons
SEEd Standard 2.2.5	iight.	Aluminum foil
Science and Engineering	In this lesson, students investigate how	Aluminum plan
Practice: Planning and carrying	plants need water and sunlight to grow.	Baking soda
out an investigation	and Dark, students experiment with	Dixie cups (3 oz.)
Crosscutting Concept:	growing radish seeds in light and dark	Paper plates
Cause and effect	conditions. They plant them in cups,	Spray bottles
	put the other half in a dark container.	Sticker labels (1x3)
	Three to seven days later, students	Radish Seeds
	compare the seedlings and then watch	
	sunlight	Literature Connection:
		ReadWorks.org
		What do Plants Need?
		A ssassmant.
		Mystery 2: Could a plant survive
		without light?
		Answer Key
March 7	Lesson 3.	Materials ner Student:
	Why do trees grow so tall?	Grass Head worksheet
SEEd Standard 2.2.3		Ceramic coffee mug
	In this lesson, students will learn the	Pen
Science and Engineering	importance of sunlight to plants, which	Rulers
Practice: Planning and carrying	activity, Grass Head, students make a	Craft sticks
out an investigation	person out of a paper towel and a	Paper plates
Crosscutting Concept:	popsicle stick with grass for hair! Then,	Paper towels
Cause and effect	direction that the grass will grow based	Plastic plates Rubber bands (#12)
	on the orientation (standing up or lying	Solo cups (9oz)
	down) that they place the Grass Head.	Fast sprouting grass seeds
		Nylon knee socks
		Literature Connection.
		ReadWorks org
		How Plants Grow
		When Trees get Thirsty
		A gagagement.
		Assessment: Mystery 3: Why do trees grow
		so tall?
		Answer Key
	x 4	
Warch 14	Lesson 4: Should you water a cactus?	Materials per Student: Grass head from lesson 3
	Should you water a cactus?	ULASS IICAU 110111 1888011 3

SEEd Standard 2.2.2 & 2.2.3		Grass head printout
Science and Engineering Practice: Analyzing and interpreting data Crosscutting Concept: Cause and effect	In this lesson, students will learn that plants have different needs in terms of sunlight and water. In the activity, Grass Head Revisited, students will examine the Grass Head they made in the previous lesson. Earlier, they predicted which way the grass would grow. Now they will discuss what happened and why.	Paper plates Literature Connection: <u>The Giant Saguaro</u> Newsela Article: <u>Big Questions: Can plants feel</u> <u>pain</u> <u>Southwest's Sonoran Desert</u> <u>may be hot and dry, but it is full</u> <u>of activity</u> ReadWorks.org <u>What lives in the desert?</u> <u>Unite for Literacy</u> <u>Spring Comes to the Desert</u> <u>The Desert</u> <u>Epic Books</u> <u>Prickly Plants</u> <u>Assessment:</u> <u>Mystery 4: Should you water a</u> <u>cactus?</u> <u>Answer Key</u>
March 21 SEEd Standard 2.2.2 & 2.2.3 Science and Engineering Practice: Develop and use a model Crosscutting Concept: Cause and effect	Lesson 5: Where do plants grow best? In this lesson, students will practice thinking like gardeners. In the activity, students play Plant Survivor, a game that encourages students to think about what plants need and how habitats change over time.	Materials per Student: Plant Cards printout Literature Connection: Newsela Article: Goats clean up a famous cemetery ReadWorks.org Insects and animals that pollinate plants Text Set Unite for Literacy Let's Grow Assessment: Mystery 5: Where do plants grow best? Answer Key
April 4 SEEd Standard 2.2.4 Science and Engineering Practice: Obtain, evaluate, and communicate information	Performance Task: <u>How can</u> anything live in Death Valley?	Materials per Student: Water and Life in Dry Death Valley printout Assessment: Plant Adventures Unit Assessment Answer Key
Crosscutting Concept: Structure and Function		