



Dear Homeschool Friend,

Thank you for ordering *BookShark's Science C Instructor's Guide*.

Each week, BookShark pairs three days of literature-rich science reading with experiments that touch on the same subject. Unfortunately, the reading schedule in your guide and the order of experiments in the *BookShark Science C Experiment Book* are offset by two weeks between Weeks 12 and 29.

To better match up your reading topics with the experiment topics, please follow the enclosed schedule for the *Experiment Book* instead of the schedule included in your guide. When you reach Week 11, simply use the attached schedule. This schedule includes adjusted science supplies lists and shopping lists for the following week.

If you have any questions or concerns regarding this product update, please feel free to contact us. You can reach us at (303) 797-2954, 9:00 am to 4:00 pm MST Monday through Thursday and 9:00 am to 1:00 pm on Friday, or email us anytime at main@BookShark.com.

Thank you for making BookShark part of your homeschool day.

Sincerely,

The BookShark Team



2SBU Curriculum Update (2022)

Enclosure: Schedule for *BookShark Science C Experiments Book*



Science C

BookShark Science C Experiments Book Updated Schedule

Week 11

BookShark Science C Experiments Book				#11 How does Temperature Affect Water?	
Supplies	We Provide (2SK): (no materials provided) You Provide: clear 6" bowl, ice, water, sauce pan and stove, mug, a jar that will fit over the mug, small container or ice cube tray				
Shopping/Planning List	For Next Week: 2 containers for water that can hold 3-4 cups, water, 1 cup salt, timer, 2 clear bowls, 2 grape or cherry tomatoes, food coloring (2 colors), markers or crayons the same color as food coloring, drinking glass, permanent marker				

Week 12

BookShark Science C Experiments Book				#28 Can I Distinguish Saltwater from Freshwater? IN	
Supplies	We Provide (2SK): 2 condiment cups, foam piece, 2 dice, cork, eyedropper, test tube, masking tape You Provide: 2 containers for water that can hold 3-4 cups, water, 1 cup salt, timer, 2 clear bowls, 2 grape or cherry tomatoes, food coloring (2 colors), markers or crayons the same color as food coloring, drinking glass, permanent marker				
Shopping/Planning List	For Next Week: large bowl, 1/4 teaspoon dish soap, 6 Tablespoons 70% Isopropyl alcohol, lots of ice cubes, 6 small bowls, permanent marker, 3 Tablespoons salt, ways to create heat (rocks, oven, hair dryer, or other (optional)), timer, optional ice cream ingredients (1/2 cup heavy whipping cream or half and half, 2 zip-top sandwich sized plastic bags, 1/2 teaspoon vanilla, 1 Tablespoon sugar, zip-top gallon plastic bag, ice, 2 Tablespoons salt)				

Other Notes

Note: Before you begin this experiment, prepare two bowls of water: one with tap water and one with saltwater (according to the instructions in the book).

Week 13

BookShark Science C Experiments Book				#29 What's the Best Way to Clear Icy Steps?	
Supplies	We Provide (2SK): masking tape, eyedropper, 2 Tablespoons sand You Provide: large bowl, 1/4 teaspoon dish soap, 6 Tablespoons 70% Isopropyl alcohol, lots of ice cubes, 6 small bowls, permanent marker, 3 Tablespoons salt, ways to create heat (rocks, oven, hair dryer, or other (optional)), timer, optional ice cream ingredients (1/2 cup heavy whipping cream or half and half, 2 zip-top sandwich sized plastic bags, 1/2 teaspoon vanilla, 1 Tablespoon sugar, zip-top gallon plastic bag, ice, 2 Tablespoons salt)				
Shopping/Planning List	For Next Week: 3 ice cubes, 2 zip-tip sandwich-size plastic bags, 1 Tablespoon baking soda, 1/4 cup vinegar, small bowl				

Week 14

<i>BookShark Science C Experiments Book</i>				#12 Can Physical Properties Classify Materials?	
Supplies	We Provide (2SK): Alka-Seltzer tablet, 8 beads You Provide: 3 ice cubes, 2 zip-tip sandwich-size plastic bags, 1 Tablespoon baking soda, 1/4 cup vinegar, small bowl				
Shopping/Planning List	For Next Week: disposable plastic water bottle with lid, permanent marker, scissors, water				

Week 15

<i>BookShark Science C Experiments Book</i>				#13 What Happens When Water Molecules Split? N	
Supplies	We Provide (2SK): 9-volt battery, 2 metal thumbtacks, plastic cup, 1 teaspoon Epsom salt, yellow clay, blue clay, 2 toothpicks You Provide: disposable plastic water bottle with lid, permanent marker, scissors, water				
Shopping/Planning List	For Next Week: 4 Tablespoons butter, 2 microwave-safe bowls or mugs, 3 freezer-safe cups or a muffin tin, 4 oz fruit juice, 2 microwave-safe plates, freezer-safe plate, 2 leaves (any kind of healthy, living leaf), knife, microwave, freezer, wax paper or paper towel				

Other Notes

Note: Dry and store the clay well, it will be used again.

Week 16

<i>BookShark Science C Experiments Book</i>				#14 Which Changes are Reversible? N	
Supplies	We Provide (2SK): craft stick (popsicle stick), Ivory soap, magnifying glass You Provide: 4 Tablespoons butter, 2 microwave-safe bowls or mugs, 3 freezer-safe cups or a muffin tin, 4 oz fruit juice, 2 microwave-safe plates, freezer-safe plate, 2 leaves (any kind of healthy, living leaf), knife, microwave, freezer, wax paper or paper towel				
Shopping/Planning List	For Next Week: 1 egg, 2 microwave safe bowls, fork or whisk, cooking spray, 1 bag of jumbo marshmallows, microwave safe plate, plastic wrap, microwave, silicone spatula, paper towels				


Other Notes

Note: This experiment requires several items to be frozen. You may freeze them the night before, or plan to do the experiment over two days.

Week 17

<i>BookShark Science C Experiments Book</i>				#15 Why do Microwaves Heat Unevenly?	
Supplies	We Provide (2SK): a piece of caramel You Provide: 1 egg, 2 microwave safe bowls, fork or whisk, cooking spray, 1 bag of jumbo marshmallows, microwave safe plate, plastic wrap, microwave, silicone spatula, paper towels				
Shopping/Planning List	For Next Week: bathtub or small child's pool				

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Week 18					
<i>BookShark Science C Experiments Book</i>				#16 Why do Animals Swim in Different Ways? 	
Supplies	We Provide (2SK): 9" balloon, index card You Provide: bathtub or small child's pool				
Shopping/Planning List	For Next Week: 2 large spoons, 2 cups dry rice, medium sized bowl, 3-4 small, solid food bits (peanuts, raisins, cereal, etc.), water, tall drinking glass, 2 pencils, sandwich-sized plastic bag, sink with water, sheet of white paper, hairdryer				
Other Notes					
<p>Note: To help your children better understand the way animals move in the water, before you begin this experiment, find videos online of the following:</p> <ul style="list-style-type: none"> • jet propulsion: squid, jellyfish • horizontal undulation: clownfish, angel fish • vertical undulation: dolphin, whale, seal / sea lion 					

Week 19					
<i>BookShark Science C Experiments Book</i>				#17 Do a Bird's Features Relate to Its Habitat?	
Supplies	We Provide (2SK): straight straw, brown pipe cleaner, masking tape, ping pong ball You Provide: 2 large spoons, 2 cups dry rice, medium sized bowl, 3-4 small, solid food bits (peanuts, raisins, cereal, etc.), water, tall drinking glass, 2 pencils, sandwich-sized plastic bag, sink with water, sheet of white paper, hairdryer				
Shopping/Planning List	For Next Week: scissors, glue				

Week 20					
<i>BookShark Science C Experiments Book</i>				#18 Why do Different Animals Live Together?	
Supplies	We Provide (2SK): (no materials provided) You Provide: scissors, glue				
Shopping/Planning List	For Next Week: 3 to 5 books, fabric or scarf, rope (jump rope, sturdy string, or cord), a few articles of clothing (pants, shirts, socks, etc.), pillowcase, a box, a place to climb (a climbing structure, playground structure, tree, etc.), something with wheels (like a wagon or skateboard (optional))				

Week 21					
<i>BookShark Science C Experiments Book</i>				#19 How Can I Carry Something Safely?	
Supplies	We Provide (2SK): (no materials provided) You Provide: 3 to 5 books, fabric or scarf, rope (jump rope, sturdy string, or cord), a few articles of clothing (pants, shirts, socks, etc.), pillowcase, a box, a place to climb (a climbing structure, playground structure, tree, etc.), something with wheels (like a wagon or skateboard (optional))				
Shopping/Planning List	For Next Week: empty milk jug or two-liter bottle, glue, ruler, scissors, various craft materials as needed (paper, fabric, wood, craft sticks, crayons, markers, permanent marker, plastic, twist ties, etc.), birdfeeder materials (wild birdseed, pinecone or bagel, peanut butter, etc. (optional))				

Week 22

BookShark Science C Experiments Book				#20 Where Can Birds Nest if a Habitat Disappears?	
Supplies	We Provide (2SK): masking tape, 4 plastic straws, string You Provide: empty milk jug or two-liter bottle, glue, ruler, scissors, various craft materials as needed (paper, fabric, wood, craft sticks, crayons, markers, permanent marker, plastic, twist ties, etc.), birdfeeder materials (wild birdseed, pinecone or bagel, peanut butter, etc. (optional))				
Shopping/Planning List	For Next Week: 4 half-sheets of paper towels, cookie sheet				

Week 23

BookShark Science C Experiments Book				#21 How do Desert Plants Conserve Water?	
Supplies	We Provide (2SK): wax paper, mesh fabric, masking tape You Provide: 4 half-sheets of paper towels, cookie sheet				
Shopping/Planning List	For Next Week: colored pencils, scissors, hole punch (optional), glue				

Week 24


BookShark Science C Experiments Book				#22 How does Camouflage Help Animals Survive in the Savanna?	
Supplies	We Provide (2SK): black construction paper You Provide: colored pencils, scissors, hole punch (optional), glue				
Shopping/Planning List	For Next Week: 2 cups or other small containers, pencil, transparent tape or glue, crayons				

Week 25


BookShark Science C Experiments Book				#23 How do People Impact Biodiversity? 	
Supplies	We Provide (2SK): white paper 11" x 17", 51 pinto beans, 46 kidney beans, 11 lentil beans, 21 radish seeds, 26 corn kernels, 61 navy beans, 2 dice You Provide: 2 cups or other small containers, pencil, transparent tape or glue, crayons				
Shopping/Planning List	For Next Week: timer, 10 Legos or building blocks, 20 cotton balls, a cup, sheet of white paper, socks and shoes, 2 clean socks				

Other Notes


Note: The package of seeds in your Supplies Kit may contain more than you need. Follow the instructions to count the right amount for this experiment. Save the radish seeds, you will plant them in a later experiment.

Week 26					
<i>BookShark Science C Experiments Book</i>				#24 Why do Some Animals Carry Things in Their Mouths? 	
Supplies	We Provide (2SK): tweezers, masking tape, 2 corks, 2 rubber bands You Provide: timer, 10 Legos or building blocks, 20 cotton balls, a cup, sheet of white paper, socks and shoes, 2 clean socks				
Shopping/Planning List	For Next Week: two-liter soda bottle with cap, scissors, 3 cups soil from around your house, green organic material (fruit peels, vegetable peels, old fruit or vegetables, eggshells, coffee grounds, bread, grass clippings, etc.), brown organic material (dried leaves, wood chips, twigs, etc.), sunny location, water, flowerpot and seeds (optional)				
Other Notes					
Note: Save the cork for a later experiment.					

Week 27					
<i>BookShark Science C Experiments Book</i>				#25 Can I Improve Soil for Gardening?	
Supplies	We Provide (2SK): 1 cup sand, masking tape You Provide: two-liter soda bottle with cap, scissors, 3 cups soil from around your house, green organic material (fruit peels, vegetable peels, old fruit or vegetables, eggshells, coffee grounds, bread, grass clippings, etc.), brown organic material (dried leaves, wood chips, twigs, etc.), sunny location, water, flowerpot and seeds (optional)				
Shopping/Planning List	For Next Week: 4 to 5 cups soil from around your house, 9" x 13" cake pan, small pan with sides, freezer, water, cardboard, various building materials (craft sticks, glue, sponge, tape, hot glue gun [parents please assist], Styrofoam, etc.), timer, 3-4 mugs, hot water				

Week 28					
<i>BookShark Science C Experiments Book</i>				#26 How do We Build Structures on Permafrost? 	
Supplies	We Provide (2SK): 6 nails, clay, 12 toothpicks, 12 notched craft sticks, 12 craft sticks You Provide: 4 to 5 cups soil from around your house, 9" x 13" cake pan, small pan with sides, freezer, water, cardboard, various building materials (craft sticks, glue, sponge, tape, hot glue gun [parents please assist], Styrofoam, etc.), timer, 3-4 mugs, hot water				
Shopping/Planning List	For Next Week: water, empty tall plastic water bottle, sink, plastic produce or grocery bag, a bowl of water (that can fit your hand), play dough (store bought or homemade, recipe in the experiment), small plastic bag, dinner plate, 3-4 books for weight				
Other Notes					
Note: This experiment requires a model of permafrost. The day before you do this experiment , follow the instructions to make permafrost which will freeze overnight.					

Week 29

BookShark Science C Experiments Book				#27 How do Fish Live at the Bottom of the Sea? 	
Supplies	We Provide (2SK): 1 teaspoon dry water beads, thumbtack, masking tape, toothpick, rubber band You Provide: water, empty tall plastic water bottle, sink, plastic produce or grocery bag, a bowl of water (that can fit your hand), play dough (store bought or homemade, recipe in the experiment book), small plastic bag, dinner plate, 3-4 books for weight				
Shopping/Planning List	For Next Week: scissors, 2 plates or a muffin tin, ruler, clear tape				

Other Notes

Note: The day before you want to do this experiment, you may want to soak the water beads and make play dough. Finds instructions for both in the experiment.