

SUPPLY LIST

Lesson 1

- Balloons (2 the same size)
- String (3 pieces, each 7 inches long)
- Ruler
- Tape
- Needle
- Water (a cup full)
- Straws (2)
- Scissors
- 2 sheets of paper
- A tape measure
- Packet of air-dry modeling clay
- 2 paper clips
- 3 chenille stems (pipe cleaners)
- Tissue paper
- Glue
- Googly eyes

Lesson 2

- Jar with lid
- Blankets (2)
- Bowl of water
- Spoon
- Googly eyes
- White glue or glue dots
- Nature items such as:
 - Four big leaves for the wings
 - Long thin leaves for the wing tails
 - Bark for the body
 - Ferns or furry leaves for antennae
 - Flowers for the markings

Lesson 3

- Different types of fabric
- Poster board
- Glue
- Clear plastic bag that can be sealed closed (one for each butterfly)
- Chenille stem for each butterfly you plan to make
- Different items from nature

Lesson 4

- Honey
- 4 small plastic cups
- Food coloring (yellow, green, blue, and red)
- Glass jar large enough to hold a soda pop can. Ideally, a 12-ounce can should fit into the jar with just a little room to spare.
- Soft drink can
- Netting or cheesecloth (one white piece)
- Construction paper (one black piece)
- 2 rubber bands
- Sand (dirt or peat moss is fine)
- One paper plate
- Sponge (cut lengthwise)
- Bread and honey (to feed the ants)
- Tape
- Styrofoam® balls (one small, 2 medium, and one large)
- Glue
- Glitter (brown)
- 2 toothpicks
- Chenille stems (black)
- Googly eyes
- Air dry clay
- An egg-shaped Styrofoam® ball
- Toothpick
- 2 yellow chenille stems

Lesson 5

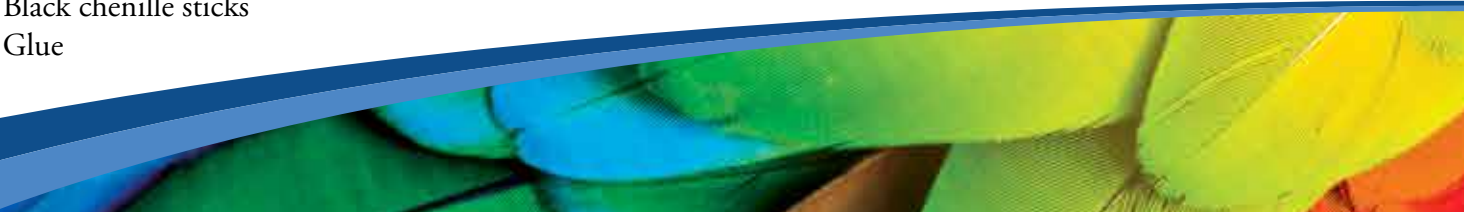
- 2 black pom-pom balls
- One yellow pom-pom ball
- Black and gold beading wire
- Glue
- Googly eyes
- Butter (1 tablespoon, softened)
- Heavy whipping cream (1 cup)
- Honey (2 cups)
- Sugar (1 cup)
- Baking soda (1/8 teaspoon)
- Candy thermometer
- Plastic wrap
- Kitchen shears
- Pot (large with a lid)
- Clay (different colors)
- Beading wire (for antennae)
- 12 or more paper towel tubes
- One large piece of corrugated cardboard for the game board
- 1.5-inch dot stickers in red and green. (You can also cut out 1.5-inch circles from red and green construction paper.)
- Yellow paint
- Scissors
- Red index cards
- Black marker
- One die

Lesson 6

- Clean jar with lid
- Glow-in-the-dark paint (yellow or colors of your choosing)
- Cotton swabs
- Scissors
- Sewing needle (small)
- Tissue paper (one piece)
- Single square of toilet paper
- Bowl of water
- Red clay
- Black clay
- Googly eyes
- Black chenille sticks
- Glue

Lesson 7

- Friend
- Rolled up sock
- Mantid egg cases
- Round clothespin
- Metallic paint
- Construction paper
- Glue
- Googly eyes
- Floral wire (thin)
- Contact paper (clear)
- Items from nature, such as leaves and flowers
- Duct tape
- Ribbons or strings (2 yards long)
- 2 identical glasses (crystal is best for a lasting sound)
- Water
- Small spoon
- Tape measure
- Soft carpet or grass
- Insect net
- Collection jar (preferably the type with a magnifying glass lid)
- Magnifying glass
- Field or natural area where insects can be found
- Cricket (at least one live cricket—you can either catch one yourself or buy some from a live bait or pet store)
- Spray bottle (filled with water)
- Materials to test (4 different kinds from among grass clippings, dried leaves, wet leaves, moss, bark mulch, pine shavings, a piece of a black plastic bag, a box with a hole cut in it or an empty tissue box)
- Knife
- Shoe box, plastic box with a lid, or a plastic tub
- Sand
- Potato (fresh)



Lesson 8

- Old family photo
- Dinosaur figurines (plastic, including a pterosaur)
- Clay (white)
- Baking pan
- Oven
- Pterosaur figurine (you can use the one from the fossil factory activity)
- Bowls (one small and one large)
- Spoons
- Water (1½ cups)
- Borax Detergent Booster (2 teaspoons)
- Glue (1 bottle of clear Elmer's glue)
- Food coloring (3 drops of yellow, 1 drop of red)
- Airtight container
- Disassembled plastic dinosaur skeletons
- 4 cups of corn flour
- 5 cups of water
- Large baking pan
- Fork
- Paintbrush
- Tape measurer
- Masking tape
- Strapping tape
- Corrugated cardboard
- Cardboard (size to be determined by the size of your pterosaur)
- Newspaper
- Masking tape
- Flour
- Water
- Bowl
- Sand paper
- Paint
- Paint brushes
- Scissors

Lesson 9

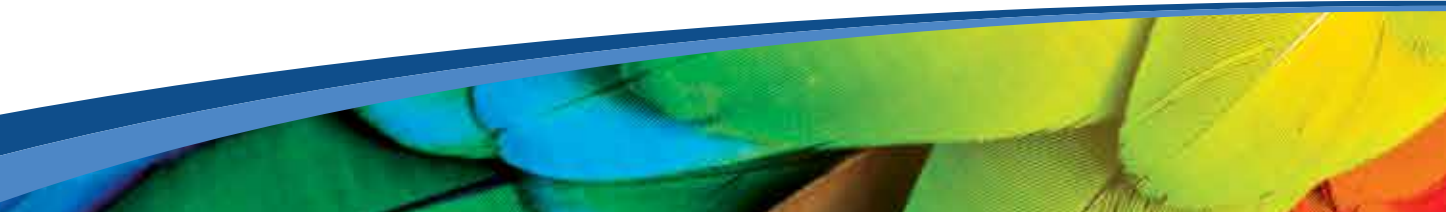
- Field guide
- Outdoor area where birds regularly visit
- Timer
- A box of building blocks
- White glue
- String
- Birdseed (wild bird blend, safflower, sunflower)
- Cookie cutters (thick-sided)
- Cooking spray
- Parchment paper
- Baking sheet
- Skewer
- String or ribbon
- Stove
- Pot
- Stirring spoon
- Freezer
- Peanut butter (2 cups crunchy)
- Lard (not shortening, 2 cups)
- Rolled oats (not quick oats, 4 cups)
- Cornmeal (4 cups)
- Sugar (2/3 cup)
- Raisins (1 cup)
- Birdseed (1 cup—you can also add whole-wheat kernels or other unprocessed grains)
- Ribbons
- Book or magazine with bird images
- Air dry foam clay in pink, orange, blue (black would also be great for the beak)
- Sharpie or paint to add detail
- Wire (optional)
- Bird Feeder Experiment Page (from Zoology 1 Notebooking Journal or the Book Extras website)
- Pie pans (3 identical pans)
- Bird seed (3 types: sunflower, safflower, Nyjer/thistle, wild bird seed, nuts, etc.)

Lesson 10

- Unbalanced Wings activity pages from the Zoology 1 Notebooking Journal or downloaded from the Book Extras website
- Scissors
- Tape
- Feather
- Magnifying glass
- Outdoor space
- Umbrella
- Feathers (large, with a shaft and quill)
- Paper
- Homemade ink (instructions below)
- Strainer
- Bowl
- Jar (small)
- Funnel
- Berries (½ cup fresh or frozen, thawed)
- Vinegar (½ tsp)
- Salt (½ tsp)
- Feathers (2)
- Water (1 cup)
- Vegetable oil
- Milk carton
- Newspaper (large piece)
- Newspaper (torn in strips)
- Cardboard
- Scissors
- Pencil or pen
- Paint
- Paper-mache paste (1 part flour, 1 part water)
- Aluminum foil
- Terracotta, ceramic, or plastic saucers from large planters (2 that are exactly the same size, shape, color, etc.)

Lesson 11

- Measuring tape
- Scale
- Chalk (different colors)
- Chicken bone
- Cow bone
- Kitchen scale
- Clear, unobstructed night sky
- Compass (your parent's phone should have one)
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- Treasure (anything can be used as the treasure, but I recommend cookies in a sealed bag or box)
- Friend or family member
- Plastic water bottle (0.5 liter)
- Air dry foam clay
- Paper-mache paste
- Newspaper or blue shop towels (torn in strips)
- Cardboard (for wings)
- Craft sticks (for legs)
- Construction paper or card stock (for legs and feet)
- Tape
- Paint (colors of an albatross)
- Paintbrushes
- Glue
- Feathers (optional)



Lesson 12

- Kitchen whisk (very large) or a suet cage
- Hook (for hanging)
- Natural materials such as:
 - Straw
 - Twigs (tiny)
 - Animal fur (if you have a pet you brush)
 - Feathers and down
 - Plant fluff
 - Grass (dry)
 - Moss
 - Lichen (from trees)
 - Bark (small strips)
 - Pine needles
 - Cotton or cotton batting (natural, unbleached)
- NOTE: Do not use string or dryer lint.
- Real estate advertisements (from the newspaper or internet)
- Piece of paper
- Colored pencils
- Mud
- Twigs
- Grass
- String
- Cotton
- Leaves
- Anything else you might like to use to build a nest!
- One pine cone
- 4 white feathers
- Yellow felt
- Black felt
- White cotton or batting
- Googly eyes
- Glue (hot glue with adult supervision may work best)
- Owl pellet (you can find one in nature or purchase one)
- Table
- Gloves
- Tweezers
- Toothpick
- Skewer
- Newspaper (or paper towel)
- Bone chart
- Lumber (a piece that is 1 inch by 6 inches and at least 5 feet long. Use cedar, if you can find it. Many lumber stores will cut the board for you. If they do, you will need 4 pieces 9 inches long, one piece 8¾ inches long, and one piece 7 inches long)
- Nails or wood screws that won't rust
- Screwdriver and hammer (if you are using nails)
- Drill
- Drill bits (1/4 inch and 7/64 inch (they don't have to be exactly this size, but something close.))
- Hole saw attachment for drill (1½ inches for a birdhouse this size)
- Two 1.5 × 1-inch hinges (they should come with screws to attach the hinges)
- Gate hook and eye assembly (one hook with 1-inch assembly)
- Tape measure or ruler
- Outdoor wood screws (2 that will not rust, 2 inches long)

Lesson 13

- Timer
- Unshelled peanut
- 2 small feathers
- Toothpick
- Paint (any color)
- Glitter
- Googly eyes
- Glue
- Nectar rich flowers
- Sugar
- Egg
- Vinegar
- Container
- Food dye (any color)
- Chicken egg
- Store bought eggs
- Farm fresh eggs
- Water (two glasses full)
- 2 eggs (at least one should be pasteurized)
- Pom-poms (yellow—one large and one small)
- Pipe cleaner (orange)
- Googly eyes (two)
- Glue
- Scissors
- Lamp with a bright bulb and the shade removed
- Large box or a low table
- 2 raw eggs
- Darkened room
- Pencil
- Bowl (should be deeper than the height of an egg lying on its side.)

Lesson 14

- Calculator
- Poster board
- Markers
- Notebook paper
- 2 fuzz balls of any color you choose
- A piece of black felt
- 2 googly eyes
- 2 chenille stems (any color)
- Glue
- Scissors
- A small to medium-size teddy bear you do not mind getting glue on (one can be purchased cheaply at a dollar store)
- Felt (enough to create a pair of wings)
- Several long, black chenille stems
- A strong twig
- Glue
- Blindfold
- 20 cotton balls
- 20 different substances with unique smells (examples: vanilla, toothpaste, dish soap, hand lotion, coffee, juice, vinegar, oils, perfumes)

