

Grade: 3 Unit: 1 Plant Life Cycle & Heredity

Mystery Science: Power of Flowers

Timeline: October

Mystery	Supplies
Mystery 1: Flowering & Reproduction	<p>Each student needs:</p> <ul style="list-style-type: none">• scissors• markers or colored pencils to color with (green and two other colors)• glue stick (students can share)• two or three pipe cleaners• Make-a-Flower sheet and Flower Base sheet sticky label. If you have old address labels, you can use those instead. <p>Each pair of students needs:</p> <ul style="list-style-type: none">• 2 small paper cups• a tablespoon of "pollen" in one of the cups• a tablespoon of a different "pollen" in the other cup <p>Choose two.</p> <ul style="list-style-type: none">• ground coffee• cornmeal• cinnamon• ground sage or dill weed
Mystery 2: Reproduction	<p>Each student needs:</p> <ul style="list-style-type: none">• a pencil• a toothpick• a plate or paper towel• a slice of tomato, celery, cucumber, potato, and radish• a Science Fruit or Science Vegetable sheet
Mystery 3: Inheritance, Traits, & Selection	<p>Each student needs:</p> <p>a pencil a toothpick a plate or paper towel a slice of tomato, celery, cucumber, potato, and radish a Science Fruit or Science Vegetable sheet</p>
Mystery 4: Fruiting, Reproduction	<p>Each student needs:</p> <ul style="list-style-type: none">• scissors• Odd One Out worksheet <p>Each pair of students needs:</p> <ul style="list-style-type: none">• set of Fruit Cards (2 pages)

Grade: 3 Unit: 2 Animal Survival & Heredity

Mystery Science: Animals Through Time

Timeline: November/December/January

Mystery	Supplies
Mystery 1: Habitats, Fossils, & Environments Over Time	<p style="text-align: right;">Number of students: <input type="text" value="25"/></p> <hr/> <p>Scissors 25 pairs</p> <hr/> <p>Dot Stickers ⓘ Details</p> <hr/> <p>Glue Sticks 25 glue sticks</p> <hr/> <p>Fossil Dig printout Print 25 copies</p> <hr/> <p>Fossil Dig Answer Key (2 pages) printout Print 1 copy</p> <hr/> <p>Fossil Dig Questions printout Print 25 copies</p> <hr/> <p>Mystery Fossils printout Print 13 copies</p> <hr/>
Mystery 2: Structures & Adaptations, Fossil Evidence, Classification	Printouts
Mystery 3: Fossil Evidence, Behavior	<p>For the racetrack, you will need:</p> <ul style="list-style-type: none">• Print out the instructions and tracks for making the raceway• a clear area of floor that's at least 8 feet long and 4 feet wide• masking tape• a measuring tape or yardstick• a pen that will write on masking tape <p>For the activity, each student will need:</p> <ul style="list-style-type: none">• a copy of the two-page student handout• a pen or pencil• a ruler or straight edge
Mystery 4&5: Heredity, Variation, & Selection	Printouts
Mystery 6: Animal Groups & Survival	Printouts
Mystery 7: Habitat change & Engineering	Printouts
Mystery 8: Traits & Environment	Post-Its (3") – 25 notes and Printouts

Grade: 3 Unit: 3: Forces, Motion & Magnets

Mystery Science: Invisible Forces

Timeline: February-March

Mystery	Supplies
Mystery 1: Forces	Each student needs: <ul style="list-style-type: none">• ruler• pen• scissors• Enough “light chipboard” to cut a 3” x 6” rectangle — available at craft or office supply stores or on Amazon. (This chipboard is about as thick as the cardboard used to for cereal boxes, so you also have the option of raiding the recycling bin for supplies.)• 2 or 3 #16 rubber bands — available at craft or office supply stores or on Amazon. (These rubber bands are 1/16” wide and about 2” long, measured from one end of the loop to the other.)• Launch Pad Handout• High Hop Scorecard
Mystery 2: Balance of Forces, Engineering	Print out Bridge Designer’s notebook 400 pennies
Mystery 3: Balance of Forces, Friction	Each student needs: <ul style="list-style-type: none">• "Try This!" and "Friction Investigation" print-out Each group of 4 students needs: <ul style="list-style-type: none">• A ruler• Tape or sticky glue dots• Pennies to use as weights• A piece of stiff cardboard measuring at least 12" by 16" (The lid of a cardboard file storage box is perfect)• A stack of books or blocks that can be used to prop up one end of the slide• Several materials to test, such as<ul style="list-style-type: none">○ sandpaper (a few 1" squares),○ craft foam or styrofoam (a few 1" squares),○ a few big plastic buttons or plastic bottle caps,○ a few large coins or metal bottle caps○ cardboard (a few 1" squares).
Mystery 4: Magnets, Forces	Each student will need: <ul style="list-style-type: none">• at least two ring magnets, available here• a Magnets Are Weird worksheet• an Ideas for Experimenters worksheet• a pencil• paperclips• a piece of thread or string or light ribbon• a few 3X5 cards• test items

Mystery 5: Magnets & Engineering

For each student, you'll need:

- 1 sheet of cardstock paper
- 1 sticky note (3" x 3")
- 1 pencil
- 1 small Paperclip
- 1 [magnet](#)
- scissors
- 1 [brad](#)
- 2 index cards
- 6 stickers or strips of tape (We use stickers like [these](#) because they substitute well for strips of tape and are easier to hand out in a large class.)
- Optional: 1 clipboard or heavy book (See Step 2: "Walls keep falling down.")*

Grade: 3 Unit: 4: Weather & Climate

Mystery Science: Stormy Skies

Timeline: April- June

Mystery	Supplies
Mystery 1: Water Cycle, Phases of Matter	<p>Each student needs:</p> <ul style="list-style-type: none">• scissors• pencil• a clear cup — we used ones like these, which we found at our local supermarket. You could also use clear jars.• a lid of some kind — any waterproof lid will do. It doesn't have to fit tightly. We used disposable lids from soft drink cups.• hot water (See Step 2.)• paper towels (in case of spills)• Gas Trap experiment sheet
Mystery 2: Local Weather Patterns, Weather Prediction	<p style="text-align: right;">Number of students: <input type="text" value="25"/></p> <hr/> <p>Scissors 25 pairs</p> <hr/> <p>Storm Spotter's Guide printout Print 25 copies</p> <hr/> <p>Will It Storm? (3 pages) printout Print 25 copies</p> <hr/> <p>Will It Storm? Answer Key (3 pages) printout Print 1 copy</p>
Mystery 3: Climate, Geography, & Global Weather Patterns	<ul style="list-style-type: none">• ruler• scissors• crayons or colored pencils in red, blue, yellow, orange, purple, and brown (these specific colors are needed)

Mystery 4: Natural Hazards & Engineering



Dot stickers

Number of students: 25

Blank Paper (8.5 x 11")	Details
Scissors	25 pairs
Dot Stickers	26 stickers
Dot Stickers ⓘ	Details
Smooth Paper Clips (#2)	25 clips
Smooth Paper Clips (#2)	52 clips
Toothpicks	78 toothpicks
Design a Windproof House (2 pages) printout	Print 25 copies
Paper House Model printout	Print 25 copies
Windmaker printout	Print 25 copies