

First Grade Science Materials List

1st Trimester

MPPS: Chapter 6: Bubbles

- Bubble solution
(1 tbsp. of dishwashing liquid, 1 tbsp. of corn syrup or glycerin, 9 tbsp. of water, stir gently so you don't make foam.)
- Small cups, one per pair of students
- Round bubble wands, one per pair of students
- Pipe cleaners, 3 per pair of students
- Assortment of bubble toys

MPPS: Chapter 8: Hear Your Heart

- Paper towel or toilet paper tubes, one per pair of students
- Your Heart Anticipation Guide overhead

MPPS: Chapter 18: Stargazers

Suggested materials for stargazing at home:

- Flashlights
- Clipboard or notebook
- Pen or pencil
- O-W-L chart (with teacher observations and wondering filled out in advance)
- Large sticky notes (about 3x5)
- Crayons or markers
- Canis Major overhead

PPS: Chapter 17: The Changing Moon

- White foam balls (1 per student) – 2 1/2 inch dense polystyrene foam balls work best, but they can be difficult to find. Plain foam balls can be rolled in white latex paint to make them more opaque.
- Pencils (1 per student)
- Lamp (lamp shade removed so light is given off in all directions)
- Optional: CD of night animal sounds (free sounds online at <http://soundbible.com/tags-animal.html>)

PPS: Chapter 18: Day and Night

- Several clocks set at different times labeled with city and country
- Globes (one per group)
- Lamps (one per group)

First Grade Science Materials List

Second Trimester

MPPS: Chapter 15: Mirror, Mirror

Per pair:

- Plastic mirror hidden in a “mystery envelope” with a question mark on the envelope
- Flashlight
- Shiny metal spoon
- Crinkled aluminum foil square (about 5cm by 5cm)

EMPPS: Chapter 10: Sounds All Around

For sound stations:

Station 1: Feel the Beat

- Drum
- Mallet
- Teaspoon of dry rice
- Bowl
- Plastic wrap
- Tape

Station 2: Sound Hanger

- Wire Hanger
- String
- Desk

Station 3: Underwater

- Large bucket of water
- 2 rocks, each about the size of a golf ball
- Paper towels

Station 4: Cardboard Kazoo

- Cardboard toilet paper or paper towel tubes
- Markers
- Tissue paper squares, 3x3 inches
- Rubber bands

Station 5: Knock, knock

- Desk or table

Station 6: The Doctor is In

- Funnel
- 50 cm of plastic aquarium tubing to the narrow part of the funnel
- Tape

Station 7: Mystery Sounds

- Six opaque film canisters or plastic Easter eggs labeled A-F and filled with common objects, such as rice, pennies, paper clips, jingle bells, dry cereal, popcorn kernels

For Phone a Friend (per pair)

- 3 m cotton string
- 2 plastic or paper cups with holes in the bottom
- 2 paper clips

First Grade Science Materials List

Second Trimester continued:

MPPS Chapter 19: Imaginative Inventions (“Leo Cockroach Toy Tester”)

- One standard Frisbee flying disc
- One pie tin
- Several “new and improved” versions of flying discs (or pictures of them) such as a foam flying disc, the Glow in the Dark Frisbee, or an Aerobie ring
- Other examples of inventions from the book *Imaginative Inventions* such as eyeglasses, high heeled shoes, roller skates, flat bottomed paper bags, marbles and piggy banks
- 2 types of inexpensive simple toys to test (1 of each per student or pair), such as blow ball pipes, finger traps, jumping frogs
- Fun Ratings Overhead
- Safety Ratings Overhead

MPPS Chapter 11: Over in the Ocean

- Coral Reef Toobs (1 Toob contains enough animals for 2 pairs of students, or use other lifelike ocean animal models or laminated color photographs of coral reef animals)
- Sticky notes (one pack per student)
- A variety of nonfiction books and magazines about coral reefs (See More Books to Read)

First Grade Science Materials List

Third Trimester

EMPPS Chapter 13: Unbeatable Beaks

For Feeder Watch (per class)

- A variety of bird feeders, including a hummingbird feeder (seven do-it-yourself bird feeder plans can be found at <http://earth911.com/news/2012/04/03/diy-recycled-bird-feeders>)
- Different types of feed (sunflower, thistle, suet, corn, fruit, nectar, mealworms, and so on)
- (Optional) Baby monitor
- (Optional) Poster of common feeder birds (available at www.cornell.edu/pfw/freedownloads.htm)

For *What's the Best Beak?* Check-Mark Lab

Per group of four students:

- 1 metal pie pan
- Cup of miniature marshmallows
- 1/2 cup of large dry beans
- Cup of water

Per student:

- Fork with the tips of the tines taped together to make a strainer
- Spring clothespin
- Eyedropper
- Small bowl
- 3 small paper cups
- Marker

For Bird Picture Sort (per pair)

- Bird Cards set (on pages 184-185)

EMPPS: Chapter 15: Amazing Caterpillars

For caterpillar observations (per class):

- Painted lady butterfly kit containing caterpillars or caterpillar coupons, food, and mesh butterfly habitat (Butterfly kits are available at www.insectlore.com and www.carolina.com)

For card sort (one set per pair of students)

- Butterfly Life Cycle cards (cut out in advance by teacher, p. 218)

For Pasta Life Cycle Diagram (per student)

- Pasta shapes to represent the stages of the butterfly life cycle: small beadlike pasta such as pearl pasta, acini di pepe, or couscous (egg), rotini (caterpillar), shell (chrysalis) and bowtie (butterfly)
- Green, brown, and black markers or colored pencils
- 9" or 10" paper plate
- White glue

First Grade Science Materials List

Parts of a Plant http://www.compton.k12.ca.us/pages/departments/Curriculum/PDF/1stGradeUnitBChp3_5.pdf

- Parts of a Plant song on the website (pgs. 16 – 21)
- *From Seed to Plant*, by Gail Gibbons or *The Carrot Seed*, by Ruth Krauss
- <http://education.seattlepi.com/1stgrade-lesson-parts-plant-3695.html> (for more ideas and resources)

Inherited Traits

http://www.internet4classrooms.com/grade_level_help/life_science_parents_offspring_first_1st_grade_science.htm

- Games on the website
- Strips of paper in two different colors (from the BABY ANIMALS lesson plan)
- Farm Babies Worksheet