

Kindergarten 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 14: Roller Coasters

- 6 foot length of foam insulation to fit a 1 inch pipe, split lengthwise with a plastic 20 oz. cup taped to the end
- Ball that will roll in the split pipe insulation prepared above, such as a foosball, large marble or ball bearing.

Supplies to use during *Fall Down*, read out loud.

- A penny
- A key

Dropping races supplies for pairs of students:

- tennis ball, marble, paper clip, penny, book
- Notebook paper
- Dry sponge
- Bar of soap
- Heavy shoe
- Lightweight shoe
- 2 identical large rubber bands

Kindergarten Science Materials List

Second Trimester

EMPPS: Chapter 11: Do you Know Which Ones Will Grow?

For open sort and close sort (for a group of 3 to 4 students)

- Picture cards

For things that grow indoors and outdoors (*Per student*)

- Clipboard

For looking for living and non-living things (*Per student*)

- Hand lens
- Clipboard

For Is It Alive? Lift-the-Flap Booklet (*Per student*)

- Magazines
- Scissors
- Markers or crayons
- glue

EMPPS: Chapter 17: Reduce, Reuse, Recycle

Per Class

- Clear plastic trash bags filled with about 4 lbs. of clean, safe trash; some of the trash should be reducible (e.g. disposable lunch packaging, disposable plastic water bottles, or paper towels), some should be reusable (e.g. unmarked construction paper, or copy paper), some should be recyclable (e.g. aluminum beverage cans or newspapers), and some should be compostable (e.g. banana peels, apple cores or leaves).
- Tape

Per Student

- 2 pieces of scrap paper
- Disposable gloves (for teacher use)

Kindergarten Science Materials List

Second Trimester continued:

MPPS: Chapter 12: Be a Friend to Trees

- Sorting Chart made from chart paper with a large Venn diagram drawn on it
- Boxes or bins, 1 per group filled with several of the following tree parts or products (actual objects or pictures of the objects) described in the book *Be a Friend to Trees*:

From Trees:

- Wooden blocks
- Writing or construction paper
- Newspaper
- Small cardboard box or paper milk carton
- Apple, orange, pear, cherry, or peach
- Walnut, almond, pecan or hazelnut in the shell (Check to see if you have students with tree nut allergies in your class, and only use pictures if you do.)
- Small tree branch with leaves
- Pine needles
- Piece of tree bark
- Paper towel
- Paper grocery bag
- Sealed baggie or balloon blown up with air and marked "Oxygen" (this will represent oxygen although it also contains other gases.)

Not From Trees:

- Plastic objects (such as small toys, markers, balls, and containers)
- Metal objects (such as keys, foil, and spoons)
- Glass marble
- Rock
- Small pumpkin, squash, carrot, or potato
- Cotton, polyester, or nylon cloth
- Reusable net or canvas grocery bag
- Sealed baggie blown up with air and marked "Carbon Dioxide" (This will represent carbon dioxide although it contains other gases.)

Both:

- Pencils with eraser
- Plastic bottle of maple syrup
- Chocolate in a foil wrapper

Materials per student for My Favorite Tree Activity

- Crayon with paper removed
- Pencil
- Clipboard (or notebook to use as a writing surface)

Kindergarten Science Materials List

Third Trimester

MPPS Chapter 17: Sunshine on My Shoulder

- UB beads (5 per student)
- Pipe cleaners or long twist ties (1 per student)
- White and colored crayons or pencils
- 1 bottle of sunscreen (at least SPF 30)

Weather

<http://www.resea.net/curriculum/curriculum/science/professionaldevelopment/ngss-pd/lesson-plans-exploring-ngss/>

- Student weather journals
- Class chart for recording daily observations
- Vocabulary key cards with symbols
- Local weather forecasts
- Large paper for each student to make a weather poster
- You Tube Videos:
(<https://www.youtube.com/watch?v=-dxbC4-nIEc>)
<https://www.youtube.com/watch?v=RmSKsyJ15yg> (this one is not mentioned in the lesson plan, but it seems more Kindergarten friendly)
https://www.youtube.com/watch?v=rGWLT8_89m8&list=PLZrSPiD-ZQr2xSxUaMF-h9it0B-iGiTN6

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