Science Grade K

Student-Supplied Resources:

- Printer
- Disk space on your computer as well as external device to back up your files (flash drive, external hard drive, CD–Rom, etc.)
- Cell phone to take photo of student’s work or scanner to scan student’s work
- Science Notebook (three-ring binder)
- Pencils
- Erasers
- Scissors
- Crayons and colored pencils
- Glue
- Tape
- Ruler
- Printer paper
- Multi-colored paper

Module Specific Materials:

Module 1

- towel
- 10 small household items
- food coloring
- Q-Tips
- liquid soap
- milk
- plate
- paint
- shoe
- 8 containers you cannot see into (cardboard boxes, plastic eggs, etc.)
- sand
- marbles
- beads
- coins
- magazines
- blindfold
- milk jug
- elastic bands
- newspaper
- potato
- household food items
Module 2

- different sized blocks
- newspaper
- glass jar
- playdough
- 4 black beans
- 2 unlabeled jars
- 4 green peas
- marble
- stapler
- sand
- hole punch
- straws
- pipe cleaners
- popsicle sticks
- paint
- paint brushes/sponges
- cotton balls
- glitter
- ribbon
- cardboard
- magazines
- egg cartons
- plastic lids
- sugar
- salt
- 5 mystery items
- empty box or bag
- cookie cutters
- rolling pin

Module 3

- 8 objects with different textures
- 8 different colored items

Module 4

- balloon
- speaker
- toilet paper roll
- plastic cup
- beads or rice or beans
- shoebox
• a flat surface
• salt
• wax paper
• cooking pot
• elastic bands
• sticks

Module 5
• toy car
• books or cushions
• an object with wheels
• string or rope
• plastic bag
• start/finish line
• a toy you can drop

Module 6
• straw
• rope or string
• plastic bottles, cans, or containers
• stick
• rolled up towels or pool noodles
• water bottles
• books
• cans
• toy cars
• ping pong ball or paper clip
• toy blocks
• basket or clothes hanger
• ball or rolled up socks
• cup
• ice cubes
• salt
• coins
• toys on wheels
• marbles
• dominoes
• toilet paper roll

Module 7
• small, light object
• 2 objects safe to drop
- paint
- objects to make a tower
- paint brushes
- cup with water
- canvas
- tissue paper
- string
- 1 quarter (or small weighted objects)
- small object to put on top of water

**Module 8**
- containers
- colored beads
- recyclable materials
- containers of soil
- water
- googly eyes
- proper walking shoes
- glass
- pipe cleaners
- modeling clay
- flashlight
- outdoor clothes

**Module 9**
- pictures of the sun

**Module 10**
- clipboard
- modeling clay

**Module 11**
- modeling clay (green, yellow, brown, red)
- clipboard
- small digging shovel
- toothpicks

**Free Downloads:**
- Java
- Windows Media Player
- Apple iTunes
Science Grade 1

**Student-Supplied Resources:**

- Printer
- Disk space on your computer as well as external device to back up your files (flash drive, external hard drive, CD–Rom, etc.)
- Cell phone to take photo of student's work or scanner to scan student's work
- Science Notebook (three-ring binder)
- Pencils
- Erasers
- Scissors
- Crayons and colored pencils
- Glue
- Tape
- Ruler
- Printer paper
- Multi-colored paper

**Module Specific Materials:**

**Module 1**

- chalk (or rope, string)
- partner
- tracks (strings, towels, etc.)
- a small piece of paper/foil
- coat hanger
- ball
- strong tape (duct/electrical)
- food color/glitter/dish soap
- paint
- pillow
- jacket/shirt
- string/yarn
- screw
- candies/stickers/buttons
- bin with water
- paper towel rolls/cardboard
- various toys
- jump rope
- a soft object (pillow, feather)
- cardboard
- toothpicks
- two Styrofoam cups
• plastic water bottle
• two empty 16-ounce bottles
• container for balls
• drawer
• lid
• something with a zipper
• two plastic bottle caps
• screwdriver
• stack of books/boxes
• dominoes/blocks

Module 2
• magazines/flyers
• round objects
• glitter
• cups
• stopwatch
• wax paper
• plate
• popsicle sticks
• magnifying glass
• flashlight
• sunlight
• newspaper
• nook
• cotton balls/cotton swabs
• black paper
• plastic wrap
• sunscreen
• aluminum foil

Module 3
• sand or dirt
• small stones
• various sized containers
• clear plastic bottle with cap
• measuring cups
• clipboard
• dish washing fluid
• spray bottle
• toothpicks
• fan
• baking soda
• white vinegar
• mini marshmallows
• medium sized rock
• drinking straw
• paper plates
• food coloring (red and yellow/orange)
• glitter
• toys
• tray

Module 4

• paper clip
• washable paint
• shoe
• white paper
• ball
• coin
• spoon or dropper
• tissue
• cardstock

Module 5

• three containers
• clipboard
• mini shovel, scoop, or cup
• big tray

Module 6

• plants
• sun protection
• vegetable plant
• two plants
• construction paper (green, brown, white)
• pictures from magazines, the internet, or my own drawings
• straws
• yarn
• foam board
• hand lens (magnifying glass)
• magazines
• wild plant
• chart of leaf types
• colored papers or crepe papers
• beads
• pipe cleaners
• pom-poms

Module 7
• plant
• building blocks
• two lima beans
• soil
• a healthy, green plant
• plastic baggies
• paper towel
• clipboard
• plastic grocery bag
• paper clips
• black construction paper
• spray bottle

Module 9
• modeling clay
• art supplies

Module 10
• 10 objects
• bag
• thermometer

Free Downloads:
• Java
• Windows Media Player
• Apple iTunes
Science Grade 2

**Student-Supplied Resources:**

- Printer
- Disk space on your computer as well as external device to back up your files (flash drive, external hard drive, CD–Rom, etc.)
- Cell phone to take photo of student’s work or scanner to scan student’s work
- Science Notebook (three-ring binder)
- Pencils
- Erasers
- Scissors
- Crayons and colored pencils
- Glue
- Tape
- Ruler
- Printer paper
- Multi-colored paper

**Module Specific Materials:**

**Module One**

- nearby objects
- empty juice box
- sponge
- magnets
- large bowl
- a plant in soil
- thermometer (in Celsius)
- paper plate
- flat rock
- can of soda (not diet soda)
- a weight (eraser, washer, etc.)
- hollow roll (paper towel or toilet paper roll)
- string

**Module Two**

- blender
- strawberries
- banana
- milk
- yogurt
- balloon
- lid
- solid from the kitchen (apple, banana etc.)
- 2 containers of different sizes
- liquids (oil, water, milk, juice)

Module Three
- small measuring container
- medium measuring container
- different shaped containers
- large measuring container
- small bowl

Module Four
- different materials
- freezer
- building blocks
- bowls
- round, colorful candies
- plate
- ice cube tray
- measuring tools
- food coloring
- spoon
- drinking cup
- ice
- rock salt
- bottled water

Module Five
- local weather forecast
- online weather report (optional)
- an outdoor thermometer in degrees Celsius
- rocks
- pictures of rocks from magazines or online
- animal parts (bugs, bones, shells, nails, etc.)
- containers to hold soil
- nail to make holes
- soil
- paper plate
- soil from your area (garden, backyard, park, etc.)
- hand lens
- coffee can with lid
- masking tape
- dead plant parts (roots, twigs, leaves, bark, etc.)
• measuring cups
• jar
• plastic spoon
• soil from the beach

Module Six
• marshmallows
• graham crackers
• craft sticks
• empty plastic water bottle
• one straw
• push pins
• pretzel sticks
• toothpicks
• modeling clay
• aluminum foil
• form of research; website, book, magazine etc.

Module Seven
• rocks
• pictures of rocks from magazines or online
• animal parts (bugs, bones, shells, nails, etc.)
• containers to hold soil
• nail to make holes
• soil
• paper plate
• soil from your area (garden, backyard, park, etc.)
• hand lens
• coffee can with lid
• masking tape
• dead plant parts (roots, twigs, leaves, bark, etc.)
• measuring cups
• jar
• plastic spoon
• soil from the beach

Module Eight
• large container
• empty plastic bottle
• three pots for soil
• cups for water
• sand/soil
• thermometers
• research materials (website, book, magazine etc.)

Module Ten
• two magnetic objects
• two non-metal objects
• cardboard box
• small object attracted to a magnet
• an object that can be pushed and pulled
• three light objects
• three heavier objects
• three objects with a round shape
• object that can be pushed and pulled with small and big force
• object that can be moved with safe open area
• seven wooden craft sticks
• seven rubber bands
• one plastic spoon
• one small ball of playdough (or small eraser)
• safety glasses
• three objects with an irregular shape

Module Eleven
• timer
• two balloons
• mystery objects
• blindfold or container for objects
• ziplock bag
• bread
• vinegar

Module Twelve
• three seeds
• three pots to plant the seeds in
• soil

Module Thirteen
• socks
• shovel
• soil
• several containers for planting
• cardboard
• playdough
• cloths
• pipe cleaners
• styrofoam
• cotton balls
• bird seeds
• paper plate
• four types of dry pasta
• lima beans
• hand lens
• lima beans soaked overnight
• paper towels
• mason jar with lid

**Free Downloads:**

• Java
• Windows Media Player
• Apple iTunes
Science Grade 3

Student-Supplied Resources:

- Printer
- Disk space on your computer as well as external device to back up your files (flash drive, external hard drive, CD–Rom, etc.)
- Cell phone to take photo of student's work or scanner to scan student's work
- Science Notebook (three-ring binder)
- Pencils
- Erasers
- Scissors
- Crayons and colored pencils
- Glue
- Tape
- Ruler
- Printer paper
- Multi-colored paper

Module Specific Materials:

Module 01

- second story window/high place
- timer
- at least 5 round objects
- weights
- scale
- masking tape
- measuring tape
- plastic cup
- sink

Module 02

- modeling clay
- glitter glue
- shiny beads
- sparkles
- black construction paper
- flashlight
- cardboard

Module 04

- object to push or pull
- modeling clay/pizza dough
• twenty metal paper clips
• balloon
• mirror
• aluminum foil or paper
• frozen banana or any fruit or vegetable
• magnet

Module 05
• carpet
• sandpaper
• two objects to rub together
• cell phone
• cardboard pizza box or shoe box
• aluminum foil
• graham crackers
• marshmallows
• chocolate bars
• flashlight
• light bulb in a lamp
• two pieces of black paper
• cold glass of water
• two cups of sand
• two balls
• two cotton balls
• plastic wrap
• box cutter
• oven mitts
• thermometer

Module 06
• dark room
• cereal box
• modeling clay
• tape or elastic bands
• metal spoon
• three long skinny objects (waterproof)
• three flashlights
• red tissue paper
• yellow tissue paper
• cardboard
• at least six test objects
• white paper
• six different colors of construction paper
• ice
• laser pointer
• hallway with a room halfway up the hall
• five or more materials of mixed media (transparent, translucent, and opaque)
• mirror
• black construction paper
• clear pitcher of water
• materials to make a poster (pictures, glue, scissors, etc.)
• forms of research (i.e. internet, magazines, etc.)
• timer
• sunlight (or a lamp)
• six thermometers
• six clear plastic cups

Module 07
• two solid objects
• two liquid objects
• thermometer
• six food items
• container
• container to measure liquid with
• two containers about the same size
• one liter measuring container

Module 08
• ice cubes
• a container
• water
• stove (or microwave)
• ice cube tray
• freezer
• pot
• small mirror

Module 10
• shoebox
• cardboard
• small potted plant
• two sponges
• string
• thumbtack
• tray
Free Downloads:

- Java
- Windows Media Player
- Apple iTunes
Science Grade 4

Student-Supplied Resources:

- Printer
- Disk space on your computer as well as external device to back up your files (flash drive, external hard drive, CD–Rom, etc.)
- Cell phone to take photo of student’s work or scanner to scan student’s work
- Science Notebook (three-ring binder)
- Pencils
- Erasers
- Scissors
- Crayons and colored pencils
- Glue
- Tape
- Ruler
- Printer paper
- Multi-colored paper

Module Specific Materials:

Module One

- *copper
- *iron
- *nickel
- *steel
- plastic
- rubber
- wood
- two bar magnets

*These metals are often found in common household items. Examples are given in the lesson in addition to accompanying video demonstrations.

Module Two

- calculator
- tennis ball
- various objects

Module Three

- tall glass
- water
- spoon
- ice cubes
• aluminum foil
• plastic wrap
• bubble wrap
• cardboard
• stopwatch
• two containers
• salt (or sand/sugar)
• one box (shoebox/cereal box)
• one paper towel roll
• utility knife
• one clothes pin
• one small wooden block
• 12-15 rubber bands
• marshmallows
• one 2 l water bottle
• one stopwatch

Module Four
• three objects
• one plate
• one book
• a piece of sandpaper
• one whole pineapple
• pair of jeans
• 10 objects
• magnet
• one egg (uncooked)
• a brownie
• an almond
• a green pepper
• a cookie
• a plastic re-sealable bag
• weights
• one whole banana
• one whole apple
• pan/scale/balance
• freezer
• plastic water bottle
• liquid
• measuring cups
• two different shaped containers

Module Five
• bowl
• fork/spoon/spatula
• two 1 liter milk cartons
• gypsum
• water
• balloon
• measuring cup

Module Six
• plastic knife
• aluminum foil
• plastic containers
• tongs

Module Seven
• a pair of old socks
• shoebox
• soil
• water
• plastic bag

Module 9
• various candies
• large marshmallows, fruit, or vegetables
• pipe cleaners
• toothpicks

Module Ten
• plastics or foil container
• clay
• straws
• paper clips

Module Twelve
• an object that spins, e.g. an office chair
• styrofoam model of the earth
• large object to represent the sun, e.g. basketball

Free Downloads:
• Java
• Windows Media Player
• Apple iTunes
Science Grade 5

Student-Supplied Resources:

- Printer
- Disk space on your computer as well as external device to back up your files (flash drive, external hard drive, CD–Rom, etc.)
- Cell phone to take photo of student's work or scanner to scan student's work
- Interactive Notebook (three-ring binder)
- Pencils
- Erasers
- Scissors
- Crayons and colored pencils
- Glue
- Tape
- Ruler
- Printer paper
- Multi-colored paper

Module Specific Materials:

Module 01

- liquid soap
- juice
- milk
- water
- cooking oil
- soil
- salt
- pepper
- baking powder
- cocoa
- thermometer
- water with ice
- sugar
- four objects
- stick of butter
- small pot
- mixing bowl
- scale
- oven mitts

Module 02
• baking soda
• vinegar
• container (i.e. soda bottle)
• four plastic containers
• water
• household materials
• spoon
• salt
• flour
• paper clips
• buttons
• pasta noodles
• other small household objects

Module 04

• three cups
• measuring spoon (tbsp.)
• ice cube tray
• freezer
• kettle
• fridge
• stopwatch
• thermometer
• three Alka Seltzer® tablets

Module 05

• tin foil or modeling clay
• large plastic container, sink, or bathtub
• fan with low and high settings
• rubber ball
• meter stick

Module 06

• rocket template
• straw
• heavy object
• light object

Module 07

• three objects that transform electrical energy
• battery
• wires with alligator clips or metal coat hangers or aluminum foil
• small light bulb or buzzer
• switch (optional)

Module 08
• two round objects

Module 09
• cardboard box
• clear plastic bottle
• clear plastic cups
• cotton balls
• plastic wrap tape
• paint
• paintbrushes
• string
• large freezer bag
• water
• measuring cups
• duct tape

Module 13
• food (cracker or bread)
• freezer bag
• lemon juice or vinegar
• stopwatch or timer

Free Downloads:
• Java
• Windows Media Player
• Apple iTunes