



Optional Materials Kit • Level A



To order, see back →



Weekly Materials List

The following items are needed for each week's "hands-on" activity. To save time and expense, an optional Materials Kit – with items listed below in bold – is available.

Lesson 1

resealable plastic bag
water paper towels
small plants (like tomato seedlings)

Lesson 2

paper cup food coloring - blue
scissors water
paper towels

Lesson 3

fur feather
cotton ball fish scale
paper cup water

Lesson 4

balloon yarn
construction paper
scissors tape

Lesson 5

tissue paper flour
yarn spoon
bowl paper towels
water
caterpillar (from Lesson 4)

Lesson 6

moth pictures pipe cleaners - 4
scissors moth wings (master)
round pencil polystyrene tube
glue crayons/colored pencils

Lesson 7

paper fish (4 red, 4 blue)
scissors newspapers

Lesson 8

wax paper - 3 toothpicks
yarn (brown) feathers
bowl flour
plastic eggs - 2 spoon

Lesson 9

paper cups - 2 vegetable oil
feather spoon
water marker

Lesson 10

twig craft stick
pea gravel beads
potting soil card stock - small
rock salt balloon

Lesson 11

pyrite pumice
bowl water
wonderstone (sandstone)

Lesson 12

flour soybean meal
salt bowl
spoon wax paper
dog biscuit water
toy turtle

Lesson 13

punch ball 5-inch balloons - 5
9-inch balloons - 4

Lesson 14

flashlight polystyrene ball (large)
dowel rods - 2 polystyrene ball (small)
paint brush / tempera paints (optional)

Lesson 15

black tube with lid white tube with lid
water construction paper - white

Lesson 16

polystyrene ball paint brush
tempera paints dowel rod
pushpin lamp

♦ ♦ ♦ continued from the front

Lesson 17

polystyrene ball	paint brush
tempera paints	dowel rod
lamp	

Lesson 18

polystyrene ball	chalk
tempera paints	paint brush
dowel rod	string

Lesson 19

antacid tablet	plastic cup
water	film canister (with lid)

Lesson 20

salt	plastic tube - clear
balloons -2	funnel
baking soda (sodium bicarbonate)	
vinegar (acetic acid)	

Lesson 21

petri dish	large straw
medium straw	small straw
bubble solution	

Lesson 22

petri dish	toothpick
wax paper	paper boats - 2
liquid soap	water
scissors	pencil

Lesson 23

petri dish	liquid soap
paper towels	whole milk
food coloring (yellow, blue)	

Lesson 24

clear tube (plastic)	tint tablet
vegetable oil	water
paper towels	

Lesson 25

spoons (1 metal, 1 plastic, 1 wooden)	
binder clip	string

Lesson 26

string (thin)	string (thick)
paper clip	portion cup (pre-drilled)

Lesson 27

balloons - 2	pencil (unsharpened)
water	paper towels

Lesson 28

long balloons - 2	string
large straw	tape
stopwatch (optional)	

Lesson 29

paper strips	straw
scissors	tape
measuring tape	

Lesson 30

ruler	spool
string	pinwheel
toy turtle	dowel rod

Lesson 31

magnifying lens	coins - 2
pipette	paper towels
water	

Lesson 32

mirror	plastic jar
flashlight	water
paper towels	

Lesson 33

toy car	books - 2
sandpaper strip	tape

Lesson 34

salt	sawdust
balloon	

Lesson 35

magnet	iron filings
plastic spoon	sawdust
resealable bags - 2	

Lesson 36

craft stick	iron filings
salt	sawdust
magnet	resealable bag
petri dish	



A clear plastic storage bin with a white lid. The lid has two recessed handles. A white label is affixed to the front of the bin, featuring the text 'KARL LUNDGREN' at the top, 'TEAM MATH/PLANS.NET' in the middle, and 'www.MATH/PLANS.NET' at the bottom. The bin is shown from a slightly elevated front perspective.



The following items are needed for each week's "hands-on" activity. To save time and expense, an optional Materials Kit – with items listed below in bold – is available.

baking soda	water
aluminum sulfate	paper cups - 3
liquid soap	packing peanuts
craft sticks - 2	aluminum pie pan
sawdust	food coloring (red, yellow)

♦ ♦ ♦ continued from the front

Lesson 16

floral tube	clay
pencil	spoons - 4
weathervane master	cardstock
tape	

Lesson 17

plastic test tube	ruler
dowel rod	thermometer
polystyrene disk	tape
permanent marker	

Lesson 18

tornado tube	glitter
paper cups - 2	spoon
snow powder	water
2-liter bottles - 2	

Lesson 19

Cheerios®	plastic test tube
dowel rod	tart pan
spoon	tempera paints
paint brush	toy car
shredded tire mulch	

Lesson 20

polystyrene block	acetone
craft stick	tart pan

Lesson 21

plastic test tube	cooking oil
corn syrup	water
food coloring (red, blue)	

Lesson 22

Properties Cube	ping-pong ball
steel ball bearing	sponge square
sandpaper square	acetate square
tile square	

Lesson 23

pepper	toothpick
liquid soap	petri dish

Lesson 24

ball mold	ball powder
paper cup	water

Lesson 25

jumping frog	large popper
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Lesson 26

ping-pong ball	golf ball
soda straws - 5	carpet strip

Lesson 27

balloon boat	5-inch balloon (with boat)
water tray	water

Lesson 28

round balloon	rocket balloon
copy paper	

Lesson 29

Direction Cube	word cards - 6
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Lesson 30

string pipe	antiseptic wipes
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Lesson 31

black construction paper strip	
aluminum foil strip	
liquid crystal square	scissors

Lesson 32

thermometer	craft stick
paper cups - 2	steel wool
acetic acid	tube with lid
paper towels	

Lesson 33

paper cup	medicine cup
craft stick	thermometer
orange juice	baking soda

Lesson 34

comb	wool cloth
Cheerios®	12-inch piece sewing thread

Lesson 35

socket	bulb
wires - 2	D-cell battery
small screwdriver	

Lesson 36

donut magnets - 2	penny
large nail	metal washer
pencil	wood disk
plastic disk	small paper disks
foam disk	red dots



To order, see back →



Weekly Materials List

The following items are needed for each week's "hands-on" activity. To save time and expense, an optional Materials Kit – with items listed below in bold – is available.

Lesson 1

petri dish	seeds
paper towel	water
tape	scissors
refrigerator	

Lesson 2

small sponges - 2	plastic wrap
water	aluminum pie plate

Lesson 3

deli paper	rubber band
cardboard tube	

Lesson 4

apple	knife (teacher only)
seed bag with seeds - 2	

Lesson 5

pipette	leaf bundle (plastic)
modeling clay	green stem (plastic)
copy paper	water

Lesson 6

swell creature	ruler
bowl	pie pan or tray
water	

Lesson 7

popper frog

Lesson 8

thumb tack	stopwatch
wooden matchstick with no head	

Lesson 9

scissors	copy paper
glue or glue stick	

Lesson 10

paper cup	spoon
magnifying lens	salt
scissors	construction paper (black)
water	pie pan (disposable)

Lesson 11

plastic cup	water
needle	tweezers (pointed)

Lesson 12

paper cups - 3	dehydrated gel
water	

Lesson 13

paper cups - 2	bucket
paper towels	sharp pencil
water	

Lesson 14

pennies - 6	level surface
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Lesson 15

pennies - 6	ruler
round pencil	

Lesson 16

eyedropper	2-liter soft drink bottle
water	

Lesson 17

balloon	soda straw
lighter	paper
1-gallon glass jar (wide-mouth)	

Lesson 18

spinning wing

◆◆◆ continued from the front

Lesson 19

water	#3 one-hole stopper
plastic funnel	#3 two-hole stopper
soft drink bottles - 2	

Lesson 20

straws - 2	fresh potato
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Lesson 21

cotton balls	plastic cup
aquarium	water
paper towels	

Lesson 22

water	2-liter soft drink bottle
cooking oil	food coloring (blue)

Lesson 23

sand	paper cup
plastic spoon	container
water	

Lesson 24

aquarium gravel	sand
potting soil	small glass jar
water	

Lesson 25

pipette	plastic spoon
clear glass jar	flashlight
water	milk

Lesson 26

dog bone	paper cups - 2
plaster of Paris	craft stick
clay	petroleum jelly
water	

Lesson 27

sheet of paper	marking pens
transparency	overhead projector

Lesson 28

slinky

Lesson 29

slinky	pencil
1-gallon milk jug	scissors
tape	

Lesson 30

shoebox	scissors
phosphorescent string	

Lesson 31

kaleidoscope lens	ball
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Lesson 32

magnet	bag of sawdust
craft stick	bottle of iron filings
plastic tray or pan	
plastic bag (resealable)	

Lesson 33

paper clips - 5	tape
nail	D-cell battery
18-inch insulated wire	

Lesson 34

paper cup	craft stick
salt	measuring cup
water	

Lesson 35

paper cup	candle
acetic acid	sodium bicarbonate
lighter	scissors
2-liter bottle	

Lesson 36

paintbrush	silk flower (treated)
acetic acid	sodium hydroxide

Materials Kit • Level D



To order, see back →



Weekly Materials List

The following items are needed for each week's "hands-on" activity. To save time and expense, an optional Materials Kit – with items listed below in bold – is available.

Lesson 1

petri dishes - 3	pipette
seeds (assorted)	water
paper towels	tape
scissors	

Lesson 2

pipettes - 2	white socks - 2
permanent markers	water

Lesson 3

pipette	cotton cloth scraps - 2
petroleum jelly	water

Lesson 4

toy predator	scissors
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Lesson 5

deli paper	tree leaves
white paper	crayon/soft lead pencil
tape	

Lesson 6

grapes	raisins
water	containers with lids - 3
masking tape	marker

Lesson 7

straight pins - 6	cork
blindfold	

Lesson 8

popper

Lesson 9

modeling clay	large box lid
scissors	

Lesson 10

magnesium sulfate	microscope slide
craft stick	paper cup
warm water	

Lesson 11

pipette	toothpick
berry box	aluminum pie plate
water	liquid detergent

Lesson 12

water	clear plastic cups - 2
large clear bowl	

Lesson 13

rubber ball	uncooked rice
clear plastic jar	

Lesson 14

pennies - 5

Lesson 15

soda straw	5-foot piece of string
scissors	pencil
ruler	tape

Lesson 16

birthday candle	straight pins - 2
water	20-ounce clear bottle

Lesson 17

tea light candle	container with lid
scissors	

Lesson 18

scissors

♦ ♦ ♦ continued from the front

Lesson 19

syringe	tubing
clay	#2 one-hole stopper
2-ounce plastic bottle	

Lesson 20

small tray	newspaper
glass jar	water
Options: aluminum tray, small cake pan, old lightweight plate	

Lesson 21

balloon	small straw
index card	rubber band
clear plastic jar	scissors
marker	tape

Lesson 22

shovel	clear plastic
rock	can

Lesson 23

plate	sandwich ingredients
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Lesson 24

sand	potting soil
aquarium gravel	large straw
paper cup	water
pencil	jar

Lesson 25

acetic acid	sodium bicarbonate
large clear hose	#2 stopper - solid
packing pellets	paper cup
liquid soap	

Lesson 26

dog biscuit	craft stick
measuring cup	bowl
cold coffee	coffee grounds (new)
flour	salt
wax paper	

Lesson 27

string	washers - 2
paper cups - 2	magnesium sulfate
craft stick	water
paper	

Lesson 28

special notepad	light source
pencil	

Lesson 29

pipette	paper cup
coin (penny)	water

Lesson 30

microscope slide	pipette
washer	paper cup
petroleum jelly	newspaper
water	

Lesson 31

straw	scissors
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Lesson 32

comb	wool fabric
petri dish	scissors
tape	

Lesson 33

paper cup	ice cubes
water	

Lesson 34

pipette	ammonium nitrate
test tube	water

Lesson 35

calcium chloride	pipette
test tube	water

Lesson 36

pipettes - 2	sodium hydroxide
test tube	hydrochloric acid
water	phenolphthalein

Materials Kit • Level E



To order, see back →



Weekly Materials List

The following items are needed for each week's "hands-on" activity. To save time and expense, an optional Materials Kit – with items listed below in bold – is available.

Lesson 1

sugar	small test tubes - 2
yeast	large test tubes - 2
spoon	baby food jars - 2
water	

Lesson 2

water	toothpicks - 3
small onion	2-liter soft drink bottle
tape	aluminum foil
knife	

Lesson 3

toothpicks - 3	small onion
water	bottle (from Lesson 2)
tape	aluminum foil

Lesson 4

potted plant	clear plastic bag
water	string

Lesson 5

flower

Lesson 6

vanilla extract	balloon, medium size
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Lesson 7

lens	balloon, large size
candle	match

Lesson 8

copy paper	tape
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Lesson 9

rubber ball	elastic string - 2 pieces
pipe cleaner	toilet tissue rolls - 2
paper punch	tape
scissors	long, thin balloons - 2

Lesson 10

toothpicks	colored marshmallows
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Lesson 11

paper cups - 2	string
water	tape
scissors	paper towels

Lesson 12

scissors

Lesson 13

metal ball	clear plastic cups - 2
tape	

Lesson 14

fresh egg	hard-boiled egg
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Lesson 15

rattleback

Lesson 16

funnel	ping-pong ball
antiseptic wipes	

Lesson 17

washers - 10	copy paper - 5 sheets
books - 2	glue stick
scissors	ruler

Lesson 18

soda straw	spool
string	paper cups - 2
washers - 8	scissors
pencil	

Lesson 19

clay	soda straw
water	2-liter soft drink bottle
pencil	

♦ ♦ ♦ continued from the front

Lesson 20

paper cups - 3	resealable plastic bags
marker	water
refrigerator/freezer	

Lesson 21

block of wood	bucket
water	waterproof marker
ice cubes - 2	

Lesson 22

plastic sheet	construction paper
copy paper	tape
spray bottle	water

Lesson 23

obsidian	gloves
apple	

Lesson 24

wonderstone	clay - 3 colors
plastic knife	

Lesson 25

iron pyrite	ceramic tile
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Lesson 26

clear plastic cup	cold water
hot water	tea bag
scrap paper	

Lesson 27

toy top	clay
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Lesson 28

petri dish	plastic wrap
scissors	tape
white paper	water
flashlight	

Lesson 29

plastic wrap	milk jug (transparent)
scissors	cardboard

Lesson 30

string	coat hanger
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Lesson 31

straight pin	magnet
cork	tape
water	bowl (non-metallic)
compass	

Lesson 32

soda straw - 1	flex straw - 1
paper cup	string
comb	wool
aluminum foil	scissors
tape	

Lesson 33

salt	paper cup
spoon	craft stick
heavy strings - 2	paper clips - 2
test tube holder	water
paper towel	match

Lesson 34

syringe container	acetic acid
antacid tablet	tape
paper towel	

Lesson 35

rattleback lens	newspaper
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Lesson 36

test tube	pipettes - 2
acetic acid	bromothymol blue
water	sodium hydroxide

Materials Kit • Level F



To order, see back →



Weekly Materials List

The following items are needed for each week's "hands-on" activity. To save time and expense, an optional Materials Kit – with items listed below in bold – is available.

Lesson 1

peanut (in shell)

Lesson 2

cocklebur seed
cloth

magnifying lens
velcro

Lesson 3

paper cup
leaves
fingernail polish remover

coffee filter
scissors

Lesson 4

spoon
knife
sticky labels - 2

yeast - 1 package
banana - sliced
resealable plastic bags - 2

Lesson 5

salt
spoon
banana - sliced

resealable plastic bags - 2
knife
sticky labels - 2

Lesson 6

"few beans" bag
construction paper
ruler

"many beans" bag
scissors
tape

Lesson 7

stopwatch
container

toothpicks (colored)

Lesson 8

sheet of paper
tape

ruler

Lesson 9

deli paper
straight pin
cardboard tube
lighter

rubber band
candle
construction paper

Lesson 10

penny
hole punch
tweezers

paper (black/white)
container

Lesson 11

nail
can

hammer
water

Lesson 12

balloons - 3
tape

straight pin

Lesson 13

clothespins - 2

rubber band

Lesson 14

metal balls - 5

ruler

Lesson 15

small cork
straight pin
small washer

soda straw
pushpin
large washer

Lesson 16

clay
popcorn seeds
water

matchstick
pie pan
paper towels

Lesson 17

piece of cloth

chinese finger trap

Lesson 18

brooms - 2

20-foot rope

Lesson 19

clear hose
milk jug
sink

one-hole stopper
water

◆◆◆ continued from the front

Lesson 20

syringe	mini-marshmallow
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Lesson 21

clay	syringe case
spoons - 4	pencil

Lesson 22

pumice stone	whipping cream
whisk	water
bowl	

Lesson 23

limestone	paper cup
pipette	hydrochloric acid
paper towels	

Lesson 24

nail	pea gravel
aquarium gravel	paper cup
sand	potting soil
2-liter bottle	hammer
water	

Lesson 25

PVC pipe	wooden dowel
ice cubes	towel
hammer	

Lesson 26

styrofoam ball	black yarn
old CD	glitter
picture of Saturn	knife
glue	markers
paint	toothpick

Lesson 27

lemon juice	bowl
knife	apple

Lesson 28

art paper	Light Slicer glasses
crayons/colored pencils	

Lesson 29

lenses - 2	scissors
cardboard tube	tape
paper	ruler

Lesson 30

paper cup	rubber band
burbling bird	pipette
water	

Lesson 31

magnet	wooden dowel rod
PVC pipe	nail
iron filings	resealable bags - 2
aluminum foil	

Lesson 32

balloon	sawdust
packing pellet	paper
scissors	

Lesson 33

paper cups - 3	craft stick
salt	water
plastic ice trays - 2	masking tape
tablespoon	freezer

Lesson 34

scissors	paper
“instant heat” package	

Lesson 35

steel wool	paper cups - 4
craft stick	acetic acid
bleach	water

Lesson 36

paper cup	thymolphthalein
pipette	sodium hydroxide
paint brush	white cloth
acetic acid	paper



Materials Kit • Level G



To order, see back →



Weekly Materials List

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Lesson 1

pipette	#2 one-hole stopper
large test tube	aquarium hose
plastic jar	seeds
scissors	water

Lesson 2

apples - 1 per team	sharp knife
lemon juice	crayons (if desired)

Lesson 3

peanut	clay
paper clip	match

Lesson 4

pipette	iodine
paper cup	packing pellets
flour	sugar
spoon	water
goggles	gloves

Lesson 5

pipette	iodine
casing material	string
paper cup	craft stick
cornstarch	water
bowl	

Lesson 6

plastic jar	red blood cell beads
water	white blood cell beads
platelet beads	

Lesson 7

paper - 2 sheets	glue or glue stick
scissors	

Lesson 8

foam rubber	rubber bands
pipe cleaners	scissors
ruler	cardboard tube
hole punch	

Lesson 9

pipettes - 2	sodium hydroxide
phenolphthalein	paper cups - 8
plastic cup - clear	marking pen
water	

Lesson 10

magnets - 2	wooden dowel
nail	paper clip
aluminum foil	pencil
paper	plastic

Lesson 11

craft stick	packing pellets - 4
pipette	paper cups - 4
water	washers - 10
scissors	paper
ruler	

Lesson 12

nails - 7	hammer
block (wood or Styrofoam®)	

Lesson 13

pushpin	cork
forks - 3	

Lesson 14

egg	large resealable bag
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♦ ♦ ♦ continued from the front

Lesson 15

washer	small Styrofoam® ball
wire	large Styrofoam® ball
clear jar	water

Lesson 16

paper clip	string
straw	newspaper
tape	weights

Lesson 17

water	paper
juice can	ruler
tape	

Lesson 18

Styrofoam® tray	sandpaper
paper clip	scissors
tape	

Lesson 19

toothpick	newspaper - 6 sheets
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Lesson 21

straw	shoe box with lid
paper machè paste	ruler
permanent marker	tape
graph paper	

Lesson 22

coal	test tube
test tube holder	propane torch (teacher only)

Lesson 23

football field	calculator
construction paper	basketball

Lesson 24

basketball court	compass
tape measure	calculator

Lesson 25

glue	scissors
black paper	foam board
pushpins	encyclopedia/Internet
white thread	

Lesson 26

metal balls	BBs
plastic wrap	masking tape
plastic bucket	

Lesson 27

metal nut	string
large poppers - 2	packing pellets
clay	tape
globe	

Lesson 28

UV beads	pipe cleaner
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Lesson 29

film container	PVC pipe
plastic wrap	

Lesson 30

test tube	#0 stopper (solid)
paper	reading fluid (water)

Lesson 31

scissors	glue
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Lesson 32

battery	insulated wires - 2
light bulb	pinching clothespin
paper clip	plastic
penny	tape

Lesson 33

copper sulfate	test tube
test tube holder	candle
matches	water

Lesson 34

candle	index card
test tube holder	matches
aluminum pan	tape
dime	

Lesson 35

nail	test tube holder
steel wool	aluminum pan
match	

Lesson 36

paper cup	ammonium hydroxide
rubber band	flower cluster
plastic wrap	scissors
water	

Materials Kit • Level H



To order, see back →



Weekly Materials List

The following items are needed for each week's "hands-on" activity. To save time and expense, an optional Materials Kit – with items listed below in bold – is available.

Lesson 1

balloons - 2	yeast
sugar	20-oz. soft drink bottles - 2
teaspoon	water

Lesson 2

scissors	plant identification book
newspaper	white construction paper
heavy cardboard	string or cord
heavy books	

Lesson 3

bag of creatures	sheet of paper
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Lesson 4

pipette	test tube
craft stick	plastic cups - 2
plastic fork	coffee filter
salt	rubber band
denatured alcohol	distilled water
clear shampoo	kiwi - sliced
measuring cup	

Lesson 5

scissors	blue yarn - 10 pieces
glue or glue stick	pink yarn - 10 pieces

Lesson 6

scissors	pink yarn - 21 pieces
glue or glue stick	blue yarn - 7 pieces

Lesson 7

scissors	blue yarn - 3 pieces
glue or glue stick	pink yarn - 9 pieces

Lesson 8

3x5 index card	soft lead pencil
clear adhesive tape	magnifying glass (optional)

Lesson 9

chart	coins - 2
sheet of paper (blank)	

Lesson 10

steel wool	pencil (with eraser)
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Lesson 11

penny	pipette
toothpick	water
liquid soap	paper towels

Lesson 12

thin wire	block of ice
weights - 2	tables - 2
pan to catch drips	

Lesson 13

rubber ball	goggles
ruler	

Lesson 14

tape	large rubber band
paper clips - 2	nut and bolt
plastic lid - 2	coffee can

Lesson 15

9-inch string	hammer
ruler	

Lesson 16

rock	cork
can diet cola	can regular cola
tape	bucket
water	

Lesson 17

plastic cup	books - 2
water	paper

♦ ♦ ♦ continued from the front

Lesson 18

toy cars - 4	craft sticks - 4
packing pellets	string
egg	ramp
tape	

Lesson 19

clear plastic cup	washer
candle	matches
aluminum pie pan	water

Lesson 20

rubber stopper w/hole	test tube
test tube holders - 2	pipette
candle	food coloring (red)
water	scissors
matches	

Lesson 21

packing pellet	clear bottle & lid
iron filings	rubber band
magnet	PVC Pipe
pencil	

Lesson 22

chalk	rope
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Lesson 23

clay	plastic container
gallon jug	water
food coloring	paper
ruler	

Lesson 24

streak plate	penny
steel nail	microscope slide
rock specimens: rose quartz, amethyst, calcite, and magnetite	

Lesson 25

pipette	hydrochloric acid
iron filings	paper
plastic bag (optional)	
rock specimens: talc, pyrite, mica, and jasper	

Lesson 26

toothpicks	raisin cookies
paper plate	

Lesson 27

small paint brush	plastic spoon
paper cup	cardboard box
ruler	graph paper
bones - 5	sand

Lesson 28

UV beads	egg carton
clear plastic	cardboard
sunblock	

Lesson 29

glass test tubes - 2	container
test tube holder	paper towels
mineral oil	

Lesson 30

sound pipes - 7	paper
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Lesson 31

trash bag	paper clips
poster board strips	stapler
hair dryer	

Lesson 32

insulated wires - 3	tacks - 2
D-cell battery	small bulb
clothespin	pencils - 2
tape	aluminum foil
samples: nail, paper clip, plastic fork, rubberband, toothpick, and washer	

Lesson 33

lab scale	paper cup
bubble gum	

Lesson 34

Styrofoam® tray	flex straw
straight pins - 4	balloon
ruler	scissors
tape	

Lesson 35

test tube	copper sulfate
solid stopper	iron filings
paper towel	water

Lesson 36

goldenrod paper	paper towels
ammonium hydroxide	pencil
water	