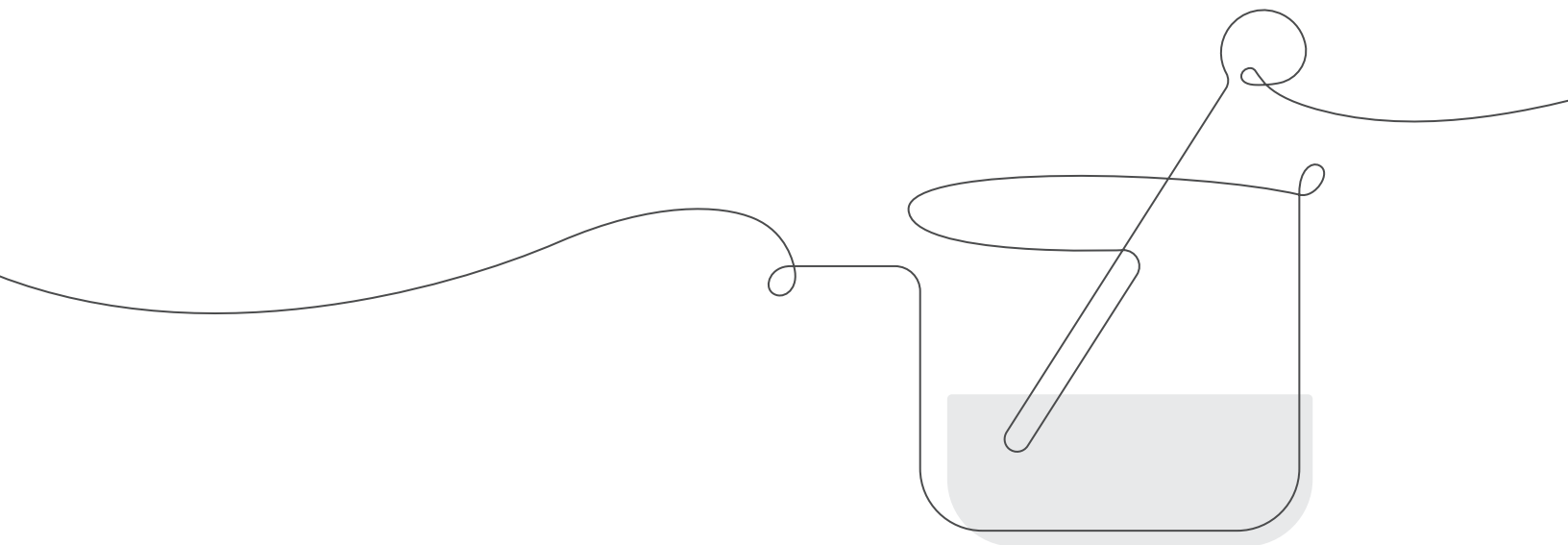


Teacher-provided materials



authored by



THE LAWRENCE
HALL OF SCIENCE
UNIVERSITY OF CALIFORNIA, BERKELEY



Amplify.



THE LAWRENCE
HALL OF SCIENCE
UNIVERSITY OF CALIFORNIA, BERKELEY

All curriculum materials © 2019 The Regents of the University of California.
© 2019 Amplify Education, Inc. All trademarks and copyrights are the property of Amplify or its licensors.

Table of contents

Needs of Plants and Animals	4
Pushes and Pulls	5
Sunlight and Weather.....	6
Animal and Plant Defenses	7
Spinning Earth	8
Light and Sound	9
Plant and Animal Relationships	10
Properties of Materials	11
Changing Landforms	12
Balancing Forces	13
Inheritance and Traits	14
Environments and Survival	15
Weather and Climate	16
Energy Conversions	17
Vision and Light	18
Earth's Features	19
Waves, Energy, and Information	20
Patterns of Earth and Sky	21
Modeling Matter	22
The Earth System	23
Ecosystem Restoration	24

Needs of Plants and Animals: Milkweed and Monarchs

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Needs of Plants and Animals* unit

Quantity	Description	Used in lesson
1	bowl, mixing, large	1.7, 2.1, 2.3, 2.5, 2.6
9	clipboards or notebooks	1.3
4	garlic bulbs, intact*	1.7, 2.3, 2.5, 2.6
36	garlic cloves*	1.7, 2.3, 2.5 (optional), 2.6
18	glue sticks	4.3
7	index cards, 3" x 5"	1.2, 1.7, 2.2, 2.5
1	marker, black	throughout
1	marker, blue	throughout
1	paper, chart, pad*	throughout
1	pitcher, or large bottle of water	1.7, 2.1, 2.3, 2.5, 2.6
2	pocket charts	throughout
100	sentence strips	throughout
1	sharp scissors	1.7, 2.1, 2.3, 2.5, 2.6
1	spoon, large	1.7, 2.1, 2.3, 2.5, 2.6
36	sticky notes* **	1.6, 3.4
1	tape, masking, roll* **	throughout

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Pushes and Pulls: Designing a Pinball Machine

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Pushes and Pulls* unit

Quantity	Description	Used in lesson
18 of each	optional: additional items for Forces Investigation (such as binder clips, cardboard tubes, clothespins, cotton balls, crayons, die, erasers)	1.3
36	classroom items (such as bean bags, wooden blocks, or books)	4.1, 4.2
36	optional: clipboards	6.1
36	crayon, black	1.4, 2.3, 3.4, 4.3, 5.1
36	crayon, blue	4.3, 5.1
36	crayon, brown	4.3, 5.1
36	crayon, orange	1.4, 2.3, 3.4, 4.3, 5.1
36	crayon, red	3.4, 5.1
39	cubes, small interlocking plastic or wooden	1.2, 1.3
1	marker, wide tip, black	throughout
1	marker, wide tip, brown	4.3, 5.1
1	marker, wide tip, orange	1.4, 2.3, 3.4, 4.3, 5.1
1	marker, wide tip, red	3.4, 5.1
1	marker, wide tip, blue	4.3, 5.1
1	paper clips, box*	throughout
19	paper towel or tissue, sheets*	1.3
1	paper, chart, pad*	1.1, 1.3, 1.4, 1.5, 2.3, 3.5, 4.3
57	paper, regular or construction, 8.5" x 11", sheets	3.3, 5.1, 5.2
19	pipe cleaners, any color	1.3
100	sentence strips	throughout
2	sticky notes, square, 3" x 3", pads, 2 different colors* **	3.5, 5.2, 5.3
1	whiteboard or pocket chart	1.2, 1.3, 1.5, 2.2, 2.3, 3.2, 3.4, 4.2, 6.1

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Sunlight and Weather: Solving Playground Problems

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Sunlight and Weather* unit

Quantity	Description	Used in lesson
1	black marker, wide-tip	throughout
1	clipboard	1.3
1	construction paper, black, 8.5" x 11"*	5.2
18	construction paper, white, 11" x 17"*	5.5
18 sets	crayons: red, orange, yellow, green, blue, purple	throughout
1	extension cord (optional)	2.1, 3.1, 4.1
enough to chill 18 plastic cups of water	ice*	1.2
12	index cards, white, 4" x 6"*	1.3, 1.4, 2.1, 2.2
1 set	markers: red, orange, yellow, green, blue, purple	1.2, 2.2, 3.2, 4.1, 4.2
20	paper, chart*	throughout
1	paper cutter or scissors	2.1, 3.1
1	paper, scratch*	1.2
37	paper, white, 8.5" x 11"*	2.2, 2.3, 5.2
36	pencils	throughout
1	pitcher, large	1.2, 5.2
1	ruler, 12-inch	1.2
15	sentence strips	throughout
1	tape, masking, rolls* **	throughout
1	timing device (e.g., wall clock, cell phone, stop watch)	3.1, 4.1
18	trays, plastic**	5.2
2	Water, gallons*	1.2, 5.2
1	X-Acto knife or other sharp instrument	5.2
1	pocket chart	2.4, 3.4, 4.3

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Animal and Plant Defenses: Spikes, Shells, and Camouflage

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Animal and Plant Defenses* unit

Quantity	Description	Used in lesson
74	baby carrots*	1.2, 2.1
7	chart paper*	1.2, 1.3, 1.5, 2.3, 2.7, 3.3
1	hole punch (single)	1.4, 2.3, 2.5, 2.8, 3.1
9	index cards, white, unlined, (4" x 6")	1.2, 1.3, 1.5, 2.3, 2.4, 2.5, 2.6, 2.7
18	cubes, interlocking, small, plastic	2.8
1	marker	throughout
9	packs of colored markers, crayons, or colored pencils	2.6, 2.8, 4.2
40	paper, white, sheets (8.5" x 11")*	1.2, 2.6, 2.8, 4.2
1	pencil with eraser	1.2
1	pocket chart or whiteboard	1.3, 1.4, 1.5, 2.2, 2.3, 2.6, 2.7, 3.3, 4.2
18	scissors, safety	1.4, 2.6, 2.8, 3.3
18	scrap paper, sheets*	4.2
20	sentence strips*	1.1, 1.3, 1.4, 1.5, 2.2, 2.7, 2.8, 3.3, 3.5, 4.1, 4.2
1	stapler	3.1, 3.3
131	sticky notes, yellow or white, (3" x 3")* **	2.2, 2.7
1	tape, masking, roll* **	throughout
10	trays, plastic **	2.3, 2.4, 2.5, 2.6, 2.8, 4.2

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Spinning Earth:

Investigating Patterns in the Sky

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Spinning Earth* unit

Quantity	Description	Used in lesson
1	chart, pocket (or whiteboard)	1.4, 1.5, 2.3, 2.4, 3.6, 4.4
36	clipboards (or other writing surface)	1.1, 1.2, 3.1, 3.3, 4.1
several for each group	crayons or colored pencils	3.2
18	glue sticks	1.3
1	hole punch, single	1.5, 2.4, 3.3, 3.6, 4.4
13	index cards (3" × 5")*	1.4, 2.3, 3.2
5	index cards, large (5" × 8")*	1.1, 1.2, 1.4, 1.5
1	marker, black	throughout
1	masking tape, roll* **	throughout
18	paper clips*	1.3
14	paper, chart, sheets*	1.1, 1.2, 1.3, 1.4, 1.5, 2.4, 3.4, 3.6, 4.2, 4.4, 5.2
1	paper, construction, sheet, black (8.5" × 11")*	1.3
1	paper, construction, sheet, yellow (8.5" × 11")*	1.3
21	paper, sheets, white (8½" × 11")*	3.2
36	pencils	1.1, 1.2, 3.2, 3.3, 4.1
5	rulers (12-inch)	3.2
10	scissors, safety	3.2, 3.5
16	sentence strips (24-inch)*	1.3, 1.4, 1.5, 2.1, 2.3, 3.2, 3.4, 3.5, 3.6, 4.4, 5.2
5	trays, plastic**	3.2

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Light and Sound: Puppet-Theater Engineers

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Light and Sound* unit

Quantity	Description	Used in lesson
1	box	4.1
1	cup or bowl, small	4.1
2	envelopes, 9" x 12" (or baskets or boxes)	2.3
8	forks, metal	4.1
18	glue sticks	2.3, 4.4
1	hole punch, single	1.4
4	index cards, 4" x 6"	2.5, 3.2
1	marker, black, wide tip	throughout
18	paper clips	2.2
4	paper towels, sheets*	4.1
1	paper, chart, pad*	throughout
1	paper, white, sheet (8.5" x 11")*	2.4
37	pencils	2.4, 3.1, 3.4, 3.5
1	pocket chart (or whiteboard)	1.4, 1.5, 2.5, 3.2, 3.6
1	pushpin	4.1
1	scissors	throughout
36	scissors, safety	2.4, 3.4, 3.5, 4.4
22–40	sentence strips*	throughout
324	sticky notes* **	1.4, 3.3, 4.1, 4.3
3	tape, clear, rolls*	2.3, 3.4, 3.5
2	tape, masking, rolls* **	throughout
19	trays, plastic**	2.3, 2.4, 3.1, 3.5, 4.4, 4.5
1	stapler	2.5, 3.6, 4.3

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Plant and Animal Relationships: Investigating Systems in a Bengali Forest

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Plant and Animal Relationships* unit

Quantity	Description	Used in lesson
36	crayons, blue	2.3
36	glue sticks	1.5, 2.2, 3.6
1	marker, wide-tip, black	throughout
36	markers, blue	2.3
2 boxes	paper clips	1.5, 1.7, 2.1, 2.2, 3.6, 4.2, 4.3
2 rolls	paper towels*	1.6, 3.4
72 sheets	paper (11" x 17")*	2.2, 3.6
180 sheets	paper (8.5" x 11")*	2.3, 2.4
2 pads	paper, chart*	throughout
9	pencils	3.2
1	pitcher	1.6
36	rulers (centimeter and inch)	1.6, 2.1
1	scissors	2.3, 4.2
1	stapler	1.1, 4.4
2 roll	tape, clear*	2.3
2 rolls	tape, masking* **	throughout
9	trays, plastic**	3.2, 3.3

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Properties of Materials: Designing Glue

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Properties of Materials* unit

Quantity	Description	Used in lesson
36	optional: bags, self-sealing, plastic, sandwich-size	4.2
37	cardstock, white, 8.5" x 11"*	4.2
2	flour, bags, 1 lb.*	1.1, 1.5, 1.9, 3.2, 3.5, 4.1, 4.2
4	glue, school, white, non-toxic, containers, 4 fl. oz.*	1.3, 1.7, 4.1, 4.2
3–4	glues, commercial, (glue stick, glitter glue, wood glue), containers*	1.3
4	glue, craft, non-toxic, containers, 4 fl. oz.*	1.3
36	goggles, safety**	1.5, 1.9, 3.2, 3.5, 4.2
1	marker, black	throughout
1	measuring cup, 2-cup capacity with handle	1.5, 2.2, 3.2, 3.5, 4.1
1	microwave	2.2, 3.2, 3.5, 4.2
approximately 63 (varies by class size)	newspaper (or old chart paper), sheets*	1.5, 1.9, 2.2, 3.2, 3.5, 4.1, 4.2
1	paper, chart, pad*	throughout
7	paper, white, unlined sheets, 8.5" x 11"*	1.5, 1.7, 2.2, 3.4
109	paper clips, jumbo*	1.4, 1.7, 3.2, 3.3, 3.5, 4.1, 4.3
36	plates, paper, small*	1.3
1	refrigerator	2.2, 3.2, 3.5, 4.2
1	scissors	4.2
1	spoon, metal, large	2.2, 3.2, 3.5, 4.2
1	tape, masking, roll* **	throughout
1	toothpick, wooden*	1.4
1	teaspoon	1.1
11	trays, plastic**	throughout
1	tub, plastic**	1.1, 2.2, 3.2, 3.5, 4.1, 4.2

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Changing Landforms: The Disappearing Cliff

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Changing Landforms* unit

Quantity	Description	Used in lesson
36 set	colored pencils, brown, yellow, green	3.2
1	cup, measuring	4.2
9	glue, white, bottle	1.3
36	goggles, safety, child-size**	2.2, 2.5, 4.2
18	lens, hand, plastic**	1.3, 1.5, 2.2, 2.5, 4.2
1	marker, permanent, black	1.3
1	marker, wide-tip	throughout
7	paper, chart*	1.1, 1.2, 1.6, 2.2, 2.5, 4.1, 4.3
15	paper clips	3.3, 3.4
9	paper plates, white	1.6, 2.5
1	stapler	1.1, 3.5, 4.3
1	straw, plastic, non-flexible*	4.2
1	tablespoon	1.3
1	tape, masking, roll* **	throughout
10	trays, plastic**	1.3, 2.2, 2.5, 4.2
4	water, gallons*	2.2, 2.5, 4.2

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Balancing Forces: Investigating Floating Trains

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Balancing Forces* unit

Quantity	Description	Used in lesson
36	books, heavy, or other 1-lb. objects	3.1
9	cardboard tubes (toilet-paper rolls), 4" long (provided in some kits)	3.3
1	hole punch, single	2.5
1	marker, black	throughout
7	paper, chart, sheets*	throughout
18	pencils	2.5, 3.4, 4.4, 5.4
10	pennies	2.1, 2.2
20	rubber bands, thick, medium size*	1.2, 3.3
18	rulers	5.1
1	scissors	throughout
10	spoons, plastic	2.1, 2.2
1	stapler	1.1
1200	sticky notes, yellow, 3" x 3"* **	throughout
2	tape, masking, rolls* **	throughout

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Inheritance and Traits:

Variation in Wolves

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Inheritance and Traits* unit

Quantity	Description	Used in lesson
36	celery, stalks with leaves*	3.3
18 sets	crayons or color pencils (at a minimum brown, grey, black, yellow, pink)	4.3
9	index cards (3" x 5")*	3.3
1	knife	3.3
1	marker, permanent, black	2.4, 3.3
1	marker, wide tip, black	throughout
108	paper clips	1.3, 1.5, 1.6, 2.1, 2.5, 3.1, 3.6, 4.2
14	paper, chart, sheets*	1.1, 1.2, 1.3, 1.5, 1.7
36	pencils	3.3
1–2	pitchers	3.3
1	scissors	2.4
1	stapler	1.1
4	sticky notes, yellow, 3" x 3", pads (100 notes/pad)* **	1.4, 1.5
1	tape, masking, roll* **	throughout
19	trays, plastic**	2.4, 3.3
27 cups	water*	3.3
9	paper, blank sheets*	3.3

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Environments and Survival: Snails, Robots, and Biomimicry

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Environments and Survival* unit

Quantity	Description	Used in lesson
18	glue sticks	2.5, 3.3
5	magnets	1.3, 2.5
1	marker, black, permanent, fine-tip	2.1
1	marker, black, wide tip	throughout
2	metersticks (or tape measures with metric measurements)	4.3, 4.4, 4.5
9	paper clips, large	2.1
180	paper clips, small	1.2, 1.3, 1.4, 1.5, 2.3, 2.5, 2.6, 3.3, 3.4
1	paper towels, roll*	2.1
4	paper, chart, sheets*	1.2, 1.5, 2.7
36	paper, sheets (8.5" x 11")*	2.5, 3.3
several for each pair of students	pencils, colored	2.7, 2.8
1–2	pitchers (or containers)	2.1
1	scissors, adult (or paper cutter)	1.3, 1.4, 2.1, 2.5, 3.3
18	scissors, safety	4.2, 4.3, 4.4, 4.5
1	stapler	1.1
1	tape, masking, roll* **	throughout
2	timers or stopwatches (with second hands)	3.1, 4.3
18	trays, plastic**	1.5, 2.1, 2.4, 3.1, 4.2
36 cups	water*	2.1

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Weather and Climate: Establishing an Orangutan Reserve

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Weather and Climate* unit

Quantity	Description	Used in lesson
3	pitcher or container, plastic, 32 oz.	1.3, 1.5, 4.3
108	crayons or markers (3 different colors/student)	2.3
1	hair dryer	4.3
2 trays	ice or chilled water*	1.3
1	kettle, electric or microwave	1.3
1	knife or sharp, pointed object	1.2
1	marker, permanent, black	1.2, 1.3
1	marker, wide tip, black	throughout
36	paper clips	1.5, 4.4
11	paper, chart, sheets*	throughout
18	paper cutter or scissors	1.5, 2.4, 3.6, 4.3
18	pennies	4.3
1	ruler, millimeter marks	1.5
1	stapler	1.1
2	tape, masking, rolls* **	throughout
9	trays, plastic**	1.2, 1.3
1	water, gallon*	1.2, 1.3, 1.5, 4.3

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Energy Conversions: Blackout in Ergstown

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Energy Conversions* unit

Quantity	Description	Used in lesson
3	cherries*	1.2
1	fan, electric	3.4, 3.5
1	marker, wide tip, black	throughout
3	measuring cup, 1-cup capacity	2.3
5	paper, chart, sheets*	throughout
1	paper towels, roll*	1.2
10	pencils, with erasers	3.4, 3.5
2	pitchers, 1–2 quart capacity	2.3
10	push pin	3.4, 3.5
10	scissors, safety	1.1, 3.4, 3.5
1	stapler	1.1, 4.6
10	tape, masking, rolls* **	throughout
1	tub, plastic**	2.3
9	trays, plastic**	3.4

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Vision and Light: Investigating Animal Eyes

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Vision and Light* unit

Quantity	Description	Used in lesson
9	optional: blindfolds	1.2, 5.2
1	box cutter	1.4, 4.4
1	cardboard, scrap	2.2
3	chart paper, sheets*	1.3, 2.2
90	dry beans	1.2, 1.3, 5.1, 5.2
1	marker, wide tip	throughout
9	markers, set of 8 colors	4.4, 4.5
1	paper, construction, black, 8.5 x 11 sheet*	1.4
72	paper, construction, various colors, 8.5 x 11 sheets*	4.4, 4.5
54	paper clips	2.5, 3.5
1	pink eraser	1.2
1 teaspoon	salt, table*	1.3
9	scissors, small	1.2, 4.4, 4.5
1	stapler	1.1
1	tape, masking, roll* **	throughout
1	teaspoon	1.2
9	trays, plastic**	1.2, 1.3

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Earth's Features:

Mystery in Desert Rocks Canyon

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Earth's Features* unit

Quantity	Description	Used in lesson
3	books	4.3, 4.4
1	cup or jar, clear	1.4
18	lenses, hand, plastic**	1.3, 1.4, 2.2
1	marker, permanent, black*	throughout
1	marker, wide tip*	throughout
1	masking tape, roll* **	throughout
1	measuring cup	1.5, 1.6, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1
18	newspaper, sheets*	1.5, 2.3
72	paper clips*	1.2, 1.3, 1.6, 3.5, 4.5
36	paper towel, sheets*	1.5, 2.3
50 each color	paper, 5 different colors (avoid blue), package*	3.1
6	paper, chart, sheets*	1.1, 1.2, 1.3, 3.1, 4.1, 4.2
9	pencil	1.5, 2.3
1	pitcher	1.5, 4.3, 4.4
1	spoon, wooden	1.5
6	towels	4.3, 4.4
9	trays, plastic**	1.5, 2.3, 3.1
435 oz.	water*	1.5, 1.6, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Waves, Energy, and Information: Investigating How Dolphins Communicate

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Waves, Energy, and Information* unit

Quantity	Description	Used in lesson
1	marker, black, wide tip	throughout
18	nickels	2.4
5	paper, chart, sheets*	1.2, 1.3, 1.5, 2.6, 3.3
54	pennies	2.4
19	scissors	1.2, 3.2
1	stapler	1.1, 1.2, 3.1, 4.1, 4.4
1	tape, masking, roll* **	throughout

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Patterns of Earth and Sky: Analyzing Stars on Ancient Artifacts

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Patterns of Earth and Sky* unit

Quantity	Description	Used in lesson
5	chart paper, sheets*	1.1, 2.2, 4.2
1	marker, wide tip, black	1.1, 1.4, 2.2, 3.3, 3.4
1	marker, permanent, black	2.5
18	markers, assorted colors	3.2, 4.2
1	meterstick	1.4
36	paper clips	1.6, 2.3, 2.6
1	round object, 1.3 mm diameter	1.5
9	rulers, 12 in. (optional)	3.2
1	scissors	1.4, 3.3
7	sentence strips*	1.4, 3.3
1	stapler	1.1, 3.6
5	sticky notes, yellow, pads 3" x 3"* **	1.3, 2.4, 3.4, 4.1
1	tape, masking, roll* **	throughout

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Modeling Matter: The Chemistry of Food

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Modeling Matter* unit

Quantity	Description	Used in lesson
3	bowls, mixing	1.2
1	fan, electric, box or floor, approximately 20"	1.5
8 cups	flour*	1.2, 3.4
36	goggles, safety**	1.2, 2.1, 3.4
1	jar or container with lid, 16–32 oz.	1.4
1	ketchup (or mustard, mayonnaise, or ranch dressing), small packet*	1.2
36	optional: lettuce, leaves (or other vegetables)*	3.7
1	marker, black, wide-tip	throughout
1	measuring cup (1 cup)	1.2
several	newspaper, sheets (or paper)*	1.2, 2.1, 3.4
18	paper clips	1.9, 3.4
1	paper towels, roll*	1.2, 1.4, 3.4
1	paper, chart, pad*	throughout
19	pencils	1.4
37	pennies	3.1
1	pitcher	1.2, 1.4, 2.1, 3.1, 3.4
1 cup	rocks, small	1.5
10	scissors, safety	1.2, 1.3, 1.4, 1.5
1	stapler	1.1, 1.10, 3.7
1 cup	sugar*	2.1, 3.7
1	tablespoon measure	1.2
1	tape, clear, roll*	1.4
1	tape, masking, roll* **	throughout
9	timing devices (or wall clock)	3.4
80	toothpicks*	1.4, 3.7
10	trays, plastic**	throughout
1	optional: vinegar, balsamic and/or red wine*	3.7
1	optional: olive oil*	3.7

*consumable item

**included in the Amplify Science Starter Kit, if purchased

The Earth System:

Investigating Water Shortages

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for *The Earth System* unit

Quantity	Description	Used in lesson
5	chart paper, sheets*	1.1, 1.3, 2.8, 5.1, 5.3
1	cooler (insulated, portable box)	2.1, 2.2, 3.1, 2.7, 3.4
1	dark-colored paper, sheet*	2.4
2	glass cups, identical	2.1
18	hand lenses**	2.1, 2.2, 3.1, 5.1, 5.4
180	ice cubes	2.1, 2.2, 2.7, 3.1, 3.4
1	light-colored paper, sheet*	1.3
1	marker, black	1.1, 1.3, 2.2, 2.4, 2.8, 4.2, 4.4, 5.1
27	markers, assorted colors	5.3
1	masking tape, roll* **	throughout
27	paper clips, medium	3.3, 4.4, 5.5
1	pitcher	2.1, 2.2, 2.4
9	plastic trays**	throughout
9	rocks, the approximate diameter of a quarter	2.7, 3.4
1	salt, 8 oz*	2.4
1	stapler	1.1
292 oz.	water*	2.1, 2.2, 2.4
28 oz.	water, hot*	2.7, 3.1, 3.4

*consumable item

**included in the Amplify Science Starter Kit, if purchased

Ecosystem Restoration:

Matter and Energy in a Rain Forest

The quantities listed are what you will need to provide to teach the unit once for a class of 36 students. Please note that you will need to replenish the consumable items after each class use.

Materials to be provided by the teacher for the *Ecosystem Restoration* unit

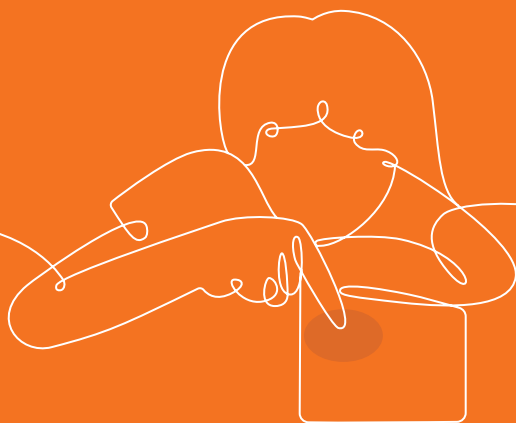
Quantity	Description	Used in lesson
1	bag, plastic, resealable	1.2
1	flashlight	2.1
36	goggles, safety**	1.2, 3.1
9	leaf litter, handfuls*	1.2
18	lenses, hand, plastic**	3.1
1	marker, permanent, black	1.2, 1.4, 2.3
1	marker, wide tip, black	throughout
several	newspaper, sheets*	1.2, 3.1
33	paper clips	1.8, 2.5, 2.7, 3.6
6	paper, chart, sheets*	1.3, 1.7, 1.8, 2.2, 3.1, 3.4
18	paper, white, sheets (8.5" x 11")*	3.1
36	pencils	1.2
1	pitcher	3.1
11	rubber bands	1.7, 2.3, 2.5
1	scissors	1.7, 2.3, 2.5
1	stapler	1.1, 3.7
1	tape, masking, roll* **	throughout
19	trays, plastic**	1.2, 2.1, 2.3, 3.1
varies with class size	water*	1.2, 2.1, 3.1

*consumable item

**included in the Amplify Science Starter Kit, if purchased



For more information on
Amplify Science, visit
amplify.com/science.



Amplify.



THE LAWRENCE
HALL OF SCIENCE
UNIVERSITY OF CALIFORNIA, BERKELEY