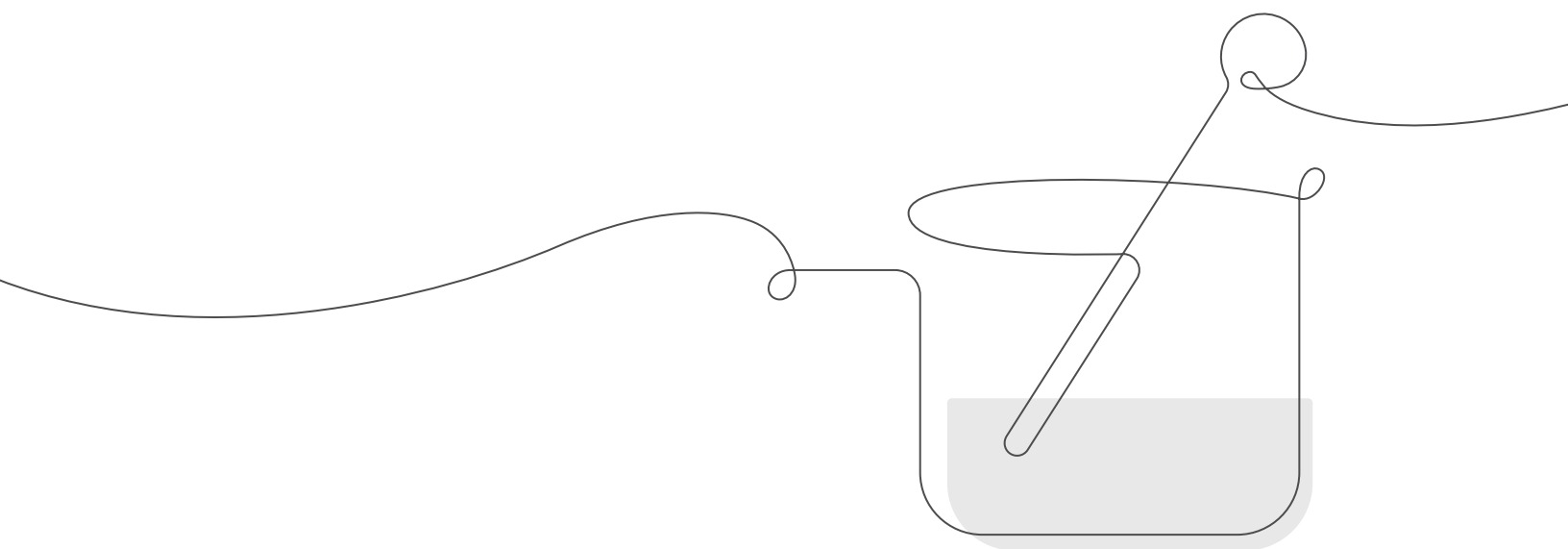


GRADE 8

Materials kit list



authored by



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Making hands-on more manageable

Hands-on learning is at the heart of Amplify Science, and is integrated into every unit. In order to make hands-on learning more manageable for busy teachers, Amplify Science materials are organized into unit-specific kits.

Each kit contains both consumable and nonconsumable materials, along with various print materials (e.g., Vocabulary and Key Concept cards). In addition, each kit contains enough materials to support small groups of 4–5 students.

Amplify Science also offers a starter kit that includes general science materials needed to conduct most hands-on activities and experiments for all units in our curriculum.



This image is a representative sample and does not reflect the exact number or size of tubs included with each grade level.

Starter Kit

TOTAL BOXES/BINS: 1 ISBN: 978-1-64089-121-0



Hands-on materials provided in the Starter kit

Quantity	Description
4	magnifying glass/hand lenses, (6/pack)
2	tub
12	paper, sticky note, pad
40	safety goggles
10	tape, masking
20	tray, plastic

Unit 1 | Harnessing Human Energy

TOTAL BOXES/BINS: 1 ISBN: 978-1-64089-497-6



Hands-on materials provided in the *Harnessing Human Energy* kit

Quantity	Description	Used in lesson
12	batteries, D-cell	1.2
4	brads, boxes	3.2
20	cables with alligator clips	1.2
10	electric motors	1.2
10	fan blades, plastic	1.2
51	film canisters	3.2
10	generators, hand-crank	1.2
20	rubber bands*	1.2
1	solar cell kit	1.2
1	springs, assorted, box	3.2
5	string, balls*	3.2
2	toys, wind-up	1.3

*consumable item

Print materials provided in the *Harnessing Human Energy* kit

Quantity	Description	Used in lesson
20 sets	Ed-You-Swivel Claim Cards (3 cards/set)	3.3
20 sets	Ed-You-Swivel Evidence Cards (8 cards/set)	3.3
21 sets	Energy Source cards (7 cards/set)	2.2
20	Evidence Gradient student sheets	3.3
1 set	Large Ed-You-Swivel Claim Cards (3 cards/set)	3.3
1 set	Large Ed-You-Swivel Evidence Cards (8 cards/set)	3.3
20 sets	Word Relationships cards (5 cards/set)	2.3
Classroom / scientific wall materials		
3	Chapter Questions	throughout
5 + header	Key Concepts	throughout
1 set	scientific argumentation wall (9 items)	throughout
1	Unit Question	throughout
10 + header	Vocabulary cards	throughout

Unit 2 | Force and Motion

TOTAL BOXES/BINS: 1 ISBN: 978-1-64089-500-3



Hands-on materials provided in the *Force and Motion* kit

Quantity	Description	Used in lesson
20	balls, golf	1.2, 2.1, 3.2
40	balls, rubber (golf-ball sized)	3.2
40	balls, table tennis	2.1
40	canning jar lids and rings	1.2, 1.4
20	rulers, 12", center groove	3.2
40	spring-loaded toilet paper roll holders/spindle	1.2, 1.4, 2.1

Print materials provided in the *Force and Motion* kit

Quantity	Description	Used in lesson
20	Word Relationships cards: set 1	1.4
20	Word Relationships cards: set 2	3.3
Classroom / scientific wall materials		
1	Unit Question	throughout
4	Chapter Questions	throughout
7 + header	Key Concepts	throughout
9 + header	Vocabulary cards	throughout

Unit 3 | Force and Motion: Engineering Internship

TOTAL BOXES/BINS: 1 ISBN: 978-1-64089-502-7



Hands-on materials provided in the *Force and Motion Engineering Internship kit*

Quantity	Description	Used in lesson
10	bags, self-sealing, quart size*	2
20	coffee filters*	2
100	cotton balls*	2
10	crates, plastic, pint size*	2
8 cups	foam peanuts*	2
20	pipe cleaners*	2
2	scales, digital*	2
20	straws, plastic, clear*	2
5	steel wool pads*	2
20 feet	string*	2
100	twist ties, 4 inch*	2

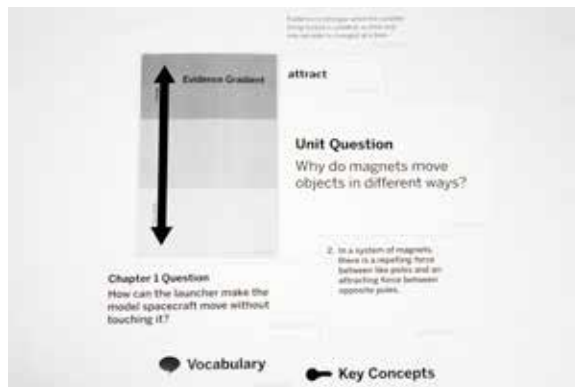
*consumable item

Print materials provided in the *Force and Motion Engineering Internship kit*

Quantity	Description	Used in lesson
Classroom / scientific wall materials		
20	Outlines to Paragraphs sheet	8

Unit 4 | Magnetic Fields

TOTAL BOXES/BINS: 1 ISBN: 978-1-64089-501-0



Hands-on materials provided in the *Magnetic Fields* kit

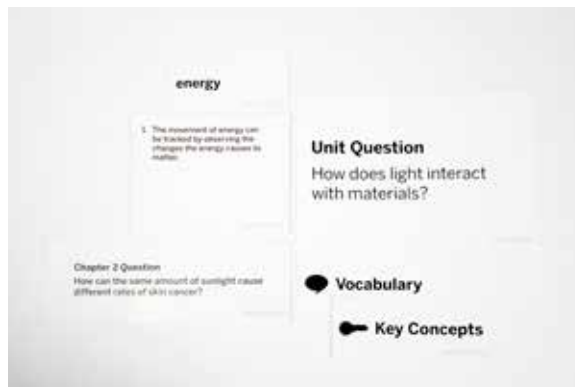
Quantity	Description	Used in lesson
1	aluminum foil, roll	1.2
20	compression springs	2.3
20	craft sticks	1.2
20	magnet bars	1.2, 1.3, 2.2
10	paper clips, boxes	1.2, 1.3, 3.3, 4.1
10	pom poms	2.2
10	rubber balls	2.2, 3.1
20	rulers	2.2, 3.1
30	self-sealing plastic bags	1.2, 2.2, 3.1
20	strong ring magnets	1.2, 2.2, 3.1
20	weak ring magnets	1.2, 3.1

Print materials provided in the *Magnetic Fields* kit

Quantity	Description	Used in lesson
20	Evidence Gradient	1.3, 4.1
Classroom / scientific wall materials		
1	Unit Question	1.2
4	Chapter Questions	throughout
8 + header	Key Concepts	throughout
16 + header	Vocabulary cards	throughout
1	Evidence Criterion	throughout

Unit 5 | Light Waves

TOTAL BOXES/BINS: 1 ISBN: 978-1-64089-505-8



Hands-on materials provided in the *Light Waves* kit

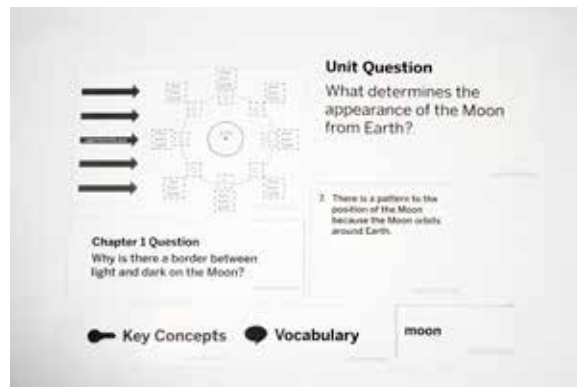
Quantity	Description	Used in lesson
80	beads, color-changing	2.1
20	binder clips	3.1
1	clamp lamp	1.2
10 of each color	cubes, red and green	3.1
10	flashlights, incandescent	1.2, 2.1
10	flashlights, UV (LED bulb)	2.1
10	laser pointers	3.1
1	light bulb, 60 watt	1.2
1	liquid crystal paper, sheet	1.2, 2.1
12	mirrors	3.1
5	pipe cleaners, yellow	2.1
10	spray bottles	3.1
20	stars, glow-in-the-dark	2.1
2	thermometers	1.2
10	toys, solar-powered	1.2
1	transparency paper, sheet	3.1

Print materials provided in the *Light Waves* kit

Quantity	Description	Used in lesson
1	Unit Question	throughout
4	Chapter Questions	throughout
12 + header	Key Concepts	throughout
10 + header	Vocabulary cards	throughout

Unit 6 | Earth, Moon, and Sun

TOTAL BOXES/BINS: 1 ISBN: 978-1-64089-511-9



Hands-on materials provided in the *Earth, Moon, and Sun* kit

Quantity	Description	Used in lesson
50	chopsticks, plastic	1.3, 1.4, 2.2, 2.4, 3.1, 4.1
1	clamp lamp	1.3, 2.2, 2.4, 3.1
1	lightbulb, incandescent	1.3, 2.2, 2.4, 3.1
50	spheres, foam	1.3, 1.4, 2.2, 2.4, 3.1, 4.1
2 sheets	transparencies, printed with triangle guides*	2.5

*consumable item

Print materials provided in the *Earth, Moon, and Sun* kit

Quantity	Description	Used in lesson
10	Moon Phases paper model templates	2.5
Classroom / scientific wall materials		
1	Unit Question	1.2
4	Chapter Questions	throughout
12 + header	Key Concepts	throughout
9 + header	Vocabulary cards	throughout

Unit 7 | Natural Selection

TOTAL BOXES/BINS: 1 ISBN: 978-1-64089-492-1



Hands-on materials provided in the *Natural Selection* kit

Quantity	Description	Used in lesson
20	bags, plastic, gallon size	2.1
60	bags, plastic, quart size	1.3, 2.1
500	counting cubes, blue	2.1
500	counting cubes, green	2.1
500	counting cubes, purple	1.3, 2.1

Print materials provided in the *Natural Selection* kit

Quantity	Description	Used in lesson
2 sets	Butterfly Population cards (20 cards/set)	1.2
Classroom / scientific wall materials		
4	Chapter Questions	throughout
10 + header	Key Concepts	throughout
1	Unit Question	1.2
13 + header	Vocabulary cards	throughout

Unit 8 | Natural Selection: Engineering Internship

TOTAL BOXES/BINS: 1 ISBN: 978-1-64089-496-9



Hands-on materials provided in the *Natural Selection Engineering Internship* kit

Quantity	Description	Used in lesson
3	bags, self-sealing, gallon size	2
20	bags, self-sealing, sandwich size	2
500	counting cubes, blue	2
500	counting cubes, green	2
500	counting cubes, purple	2
20	drawstring bags, non-transparent, small	2

Print materials provided in the *Natural Selection Engineering Internship* kit

Quantity	Description	Used in lesson
20	Modeling Population Shifts cards (6 cards/set)	2
20	Outlines to Paragraphs sheet	8

Unit 9 | Evolutionary History

TOTAL BOXES/BINS: 1 ISBN: 978-1-64089-495-2



Hands-on materials provided in the Evolutionary History kit

Quantity	Description	Used in lesson
1 full kit	K'NEX® Intermediate Math & Geometry Set	3.1
20	self-sealing plastic bags	3.1

Print materials provided in the Evolutionary History kit

Quantity	Description	Used in lesson
1 set	Large Species cards (9 cards/set)	1.2
20 sets	Species cards (9 cards/set)	1.2, 2.1
1 set	Large structure change cards (6 cards/set)	2.4
20 sets	Structure Change cards (6 cards/set)	2.4
10 sets	Word Relationship cards: set 1 (5 cards/set)	2.5
10 sets	Word Relationship cards: set 2 (6 cards/set)	3.2
20 sets	Comparing Body Structure cards (10 cards/set)	3.3
20 sheets	Comparing Evidence tables	3.3
20 sheets	Evidence Gradient	4.1
Classroom / scientific wall materials		
1	Unit Question	1.2
4	Chapter Questions	throughout
7 + header	Key Concepts	throughout
11 + header	Vocabulary cards	throughout
1	Evidence Criterion	throughout

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