INTEGRATED COURSE MODEL

# Materials kit list





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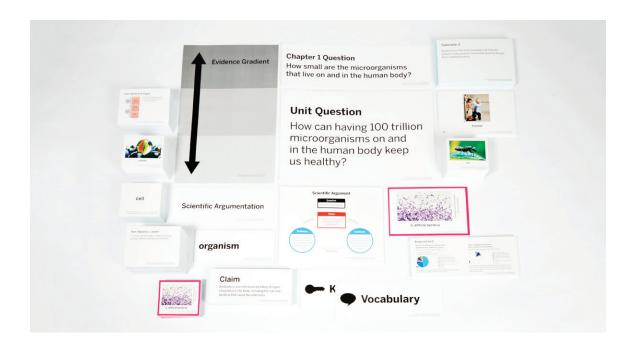
<sup>\*</sup>There is no hands-on materials kit for the grade 6 unit Metabolism: Engineering Internship.

## Starter Kit



Quantity	Description
12	sticky notes, 3" x 3", pad
24	hand lenses, plastic
10	masking tape, rolls
40	goggles, safety
20	trays, plastic
2	dish tubs

## Microbiome



Materials in this unit are packaged in **1** box.

Quantity	Description
1	Components of a Written Scientific Argument card
3	Argumentation Sentence Starters cards
2	Evaluating Evidence Criterion cards
1	Scientific Argumentation purpose
1	Scientific Argumentation label
1	Scientific Argument diagram
1	Evaluating Evidence label
1	Evidence Gradient cards
1	Reasoning tool
20 sets	Antibiotics Claim and Relevant/Irrelevant headers (3 cards/set)
20 sets	Antibiotics Evidence cards (cards A–F) (10 cards/set)
20 sets	Bacteria Evidence Subclaims cards (2 cards/set)
1	Bacteria Evidence Subclaim 2, large card

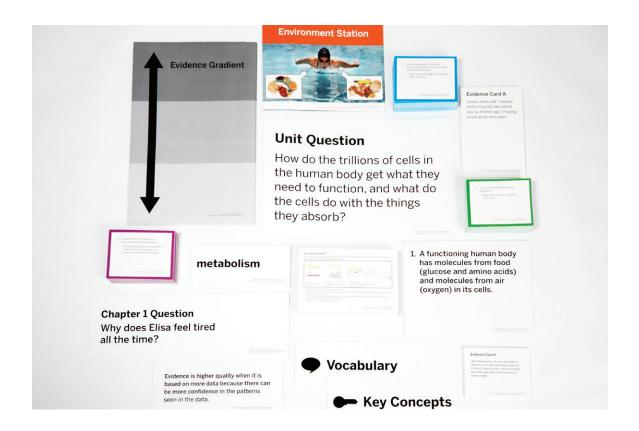
20 sets	Bacteria Evidence cards (10 cards/set)
20 sets	Word Relationships cards (6 cards/set)
20	Antibiotics Evidence Cards (Cards G)
20 sets	Scale cards: set 1 (16 cards/set)
20 sets	Scale cards: set 2 (3 cards/set)
2	Bacteria Evidence Cards, large
20	Evidence Gradient sheets
19	Scale cards, large
2	Key Concepts and Vocabulary headers
2	Chapter Questions cards
1	Unit Question card
10	Key Concepts cards
11	Vocabulary cards

## Metabolism



Materials in this unit are packaged in **1** box.

Quantity	Description
10	bottles, 60 mL, filled with phenol red
1	calcium chloride, container
10	cylinders, graduated, 25 mL
50	baggies, plastic with zip
1	baking soda, container
150	pipe cleaners, purple
75	pipe cleaners, yellow
200	pipe cleaners, green
1	measuring spoon
1	stopwatch



Quantity	Description
15	Science Seminar Evidence Cards, large
20 sets	Purple Group cards (4 cards/set)
20 sets	Green Group cards (4 cards/set)
20 sets	Blue Group cards (4 cards/set)
2	Evidence Comparison cards
10 sets	Role cards (6 cards/set)
20	Evidence Gradients cards
5	Elisa's Evidence cards
20	Purple Group key
20	Green Group key

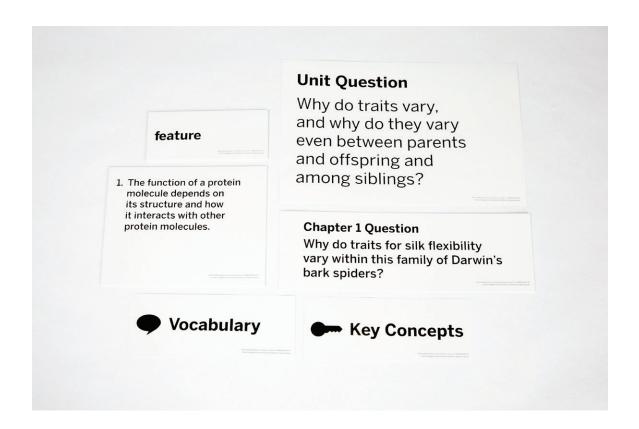
20	Blue Group key
6	Heart Failure cards
6	station signs
2	Key Concepts and Vocabulary headers
4	Chapter Questions cards
1	Evidence Criterion card
1	Unit Question card
11	Key Concepts cards
11	Vocabulary cards

## Traits and Reproduction



Materials in this unit are packaged in **1** box.

Quantity	Description
1	K'Nex, Intermediate Math and Geometry Kit
30	baggies, plastic with zip



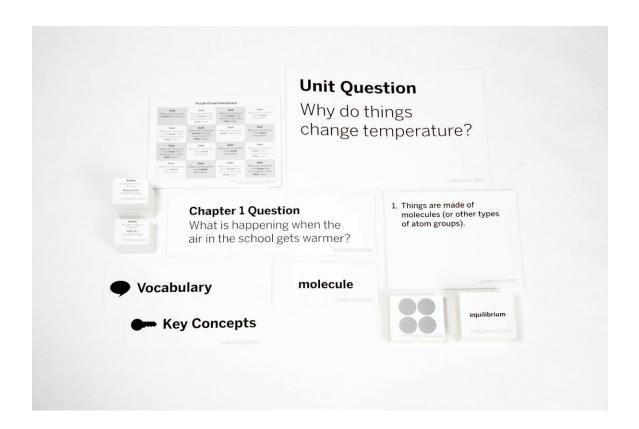
Quantity	Description
2	Key Concepts and Vocabulary card headers
4	Chapter Questions cards
12	Key Concepts sheets
1	Unit Question card
13	Vocabulary cards

## Thermal Energy



Materials in this unit are packaged in **1** box.

Quantity	Description
2	cylinders, graduated, 500 mL
2	deli containers, plastic
1 set	food coloring set
42	cups, plastic, 16 oz
2	pitchers, plastic
20	thermometers
1000	energy cubes



Quantity	Description
20 sets	Energy 3-in-a-Row Blue Action cards (16 cards/set)
20 sets	Energy 3-in-a-Row Action cards (16 cards/set)
20 sets	Word Relationships cards: set 1 (4 cards/set)
20 sets	Word Relationships cards: set 2 (6 cards/set)
20 sets	Energy 3-in-a-Row object cards (3 cards/set)
20	Energy 3-in-a-Row game boards
2	Key Concepts and Vocabulary cards headers
4	Chapter Questions cards
1	Unit Question card
14	Key Concepts cards
11	Vocabulary cards

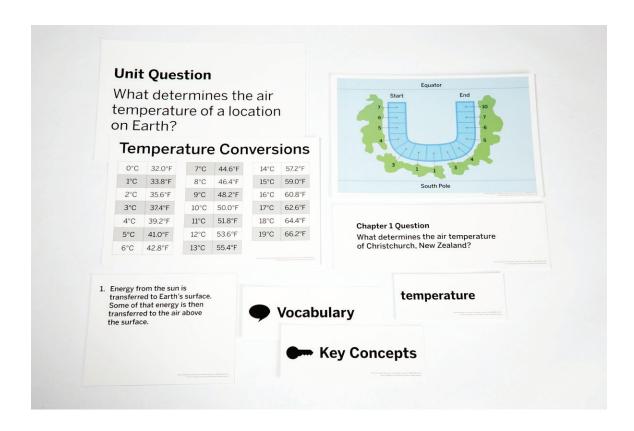
## Ocean, Atmosphere, and Climate



Materials in this unit are packaged in 2 boxes.

Quantity	Description
1	lightbulb, incandescent, 150 watt
70	stickers, small, white, circular
14	baggies, plastic with zip
201	straws, flexible, wrapped
20	plastic lids, for 9 oz cup
1500	tokens, yellow, stacking
2	cups, plastic, 9 oz
20	cups, foam, 8 oz

18	Probability dice
1	pepper, shaker
11	tanks, plastic
6	rocks, black
20	thermometers
1	ring stand
1	clamp lamp



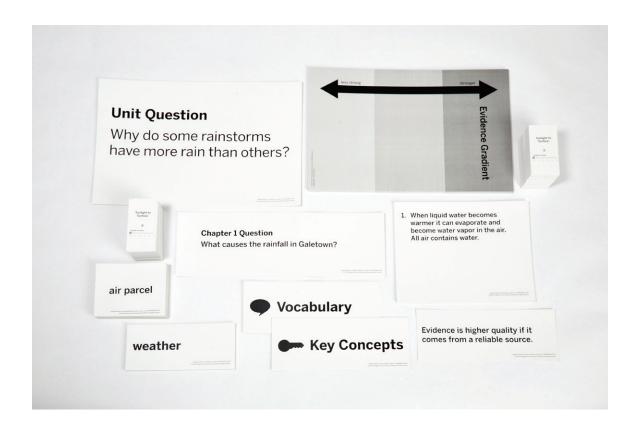
Quantity	Description
1	Temperature Conversion poster
14	Ocean Currents game boards
2	Key Concepts and Vocabulary cards headers
4	Chapter Questions cards
8	Key Concepts cards
1	Unit Question card
9	Vocabulary cards

## Weather Patterns



Materials in this unit are packaged in **1** box.

Quantity	Description
20	straws, plastic, unwrapped
100	baggies, plastic with zip
5	plastic dry cleaner bags
30	dropper tips
20	syringes



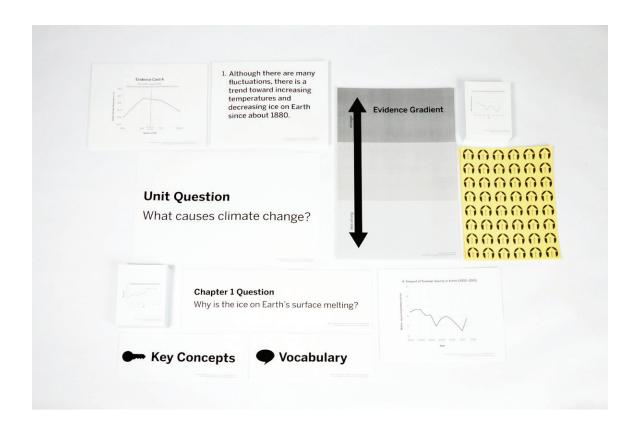
Quantity	Description
15 sets	Making It Rain with Jet Streams cards (60 cards/set)
15 sets	Reaching the Target cards (36 cards/set)
10 sets	Word Relationships cards (6 cards/set)
15 sets	Making it Rain cards (54 cards/set)
1	Temperature Conversion chart
40	Evidence Gradient cards
2	Key Concepts and Vocabulary cards
4	Chapter Questions cards
1	Evidence Criterion card
11	Key Concepts cards
1	Unit Question card
15	Vocabulary cards

## Earth's Changing Climate



Materials in this unit are packaged in **1** box.

Quantity	Description
21	baggies, plastic with zip
420	energy token cards
640	paper clips



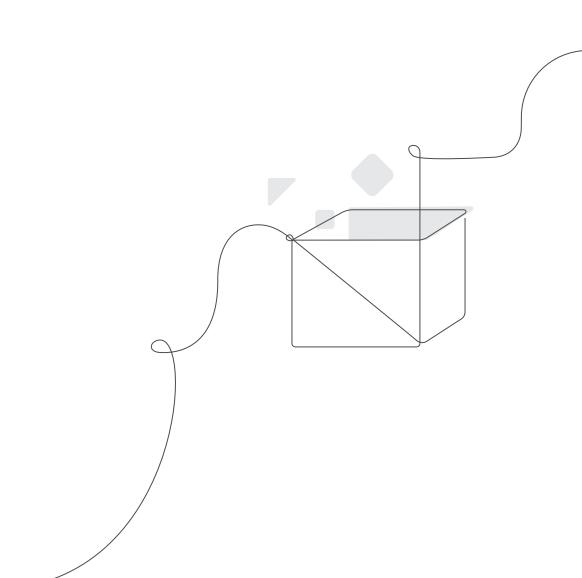
Quantity	Description
20 sets	Human Activities Evidence Cards (4 cards/set)
20 sets	Melting Ice Evidence Cards (3 cards/set)
3	Large Melting Ice Evidence Cards
10	Large Volcano Evidence Cards
20	Evidence Gradient cards
2	Key Concepts and Vocabulary card headers
1	Evidence Criterion card
4	Chapter Questions cards
1	Unit Question card
16	Key Concepts cards
16	Vocabulary cards

## Earth's Changing Climate: Engineering Internship



Materials in this unit are packaged in **1** box.

Quantity	Description
10	felt, black, 12" x 20" pieces
2	cables with alligator clips
10	protectors, page, glossy
1	lightbulb, 60 watt
1	fan blades, plastic
1	electric motor
5	light meters
1	solar panel
1	clamp lamp



## Geology on Mars



Materials in this unit are packaged in **1** box.

Quantity	Description
1	clay, non-drying, 16 oz
20	rock samples, basalt
2	trays, stream table
20	conglomerate rocks
4	sand, 2.5 kg bags
1	stream table kit
20	lenses, hand
2	clamp lamps
2	tubing, 4ft
4	buckets



Quantity	Description
2	Scientific Argumentation Label and Scientific Argumentation Purpose cards
3	Evaluating Evidence Label and Evaluating Evidence Criterion cards
1	Components of a Written Scientific Argument card
3	Argumentation Sentence Starter cards
1	Scientific Argument diagram
1	Evidence Gradient
1	Reasoning tool
20 sets	Jelly Donut Question and Claim cards (3 cards/set)
21	Channel on Mars Evidence Gradient student sheets
20 sets	Jelly Donut Evidence cards: Set 1 (7 cards/set)

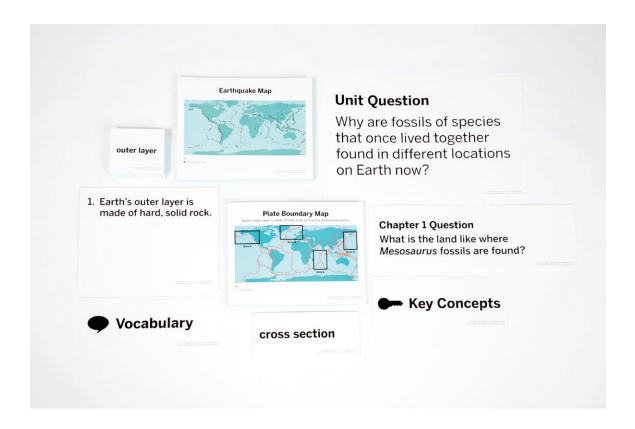
20 sets	Jelly Donut Evidence cards: Set 2 (4 cards/set)
10 sets	Comparing Rocky Planets cards (16 cards/set)
21 sets	Channel on Mars Evidence cards (6 cards/set)
21 sets	Background Information cards (2 cards/set)
20 sets	Geologic Processes cards (2 cards/set)
2	Key Concepts and Vocabulary cards headers
3	Chapter Questions cards
1	Unit Question cards
5	Key Concepts cards
10	Vocabulary cards

## Plate Motion



Materials in this unit are packaged in **1** box.

Quantity	Description
40	transparencies, blank, 8.5" x 11", sheets
40	wet-erase markers, black
20	Silly Putty, containers
40	wet-erase markers, red
20	cubes, 1", plastic
20	towels



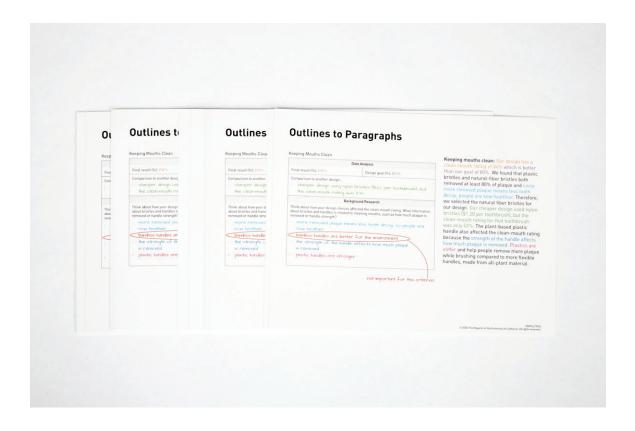
Quantity	Description
10 sets	Word Relationship cards: set 1 (4 cards/set)
10 sets	Word Relationship cards: set 2 (2 cards/set)
20	Plate Boundary Map cards
20	Earthquake Map cards
2	Key Concepts and Vocabulary cards headers
4	Chapter Questions cards
9	Key Concepts cards
1	Unit Question card
14	Vocabulary cards

## Plate Motion: Engineering Internship



Materials in this unit are packaged in **1** box.

Quantity	Description
8	transparencies, blank, 8.5" x 11", sheets
64	plastic buildings, miniature
2	tape, packing, clear, rolls
200	straws, flexible, wrapped
8	paint trays



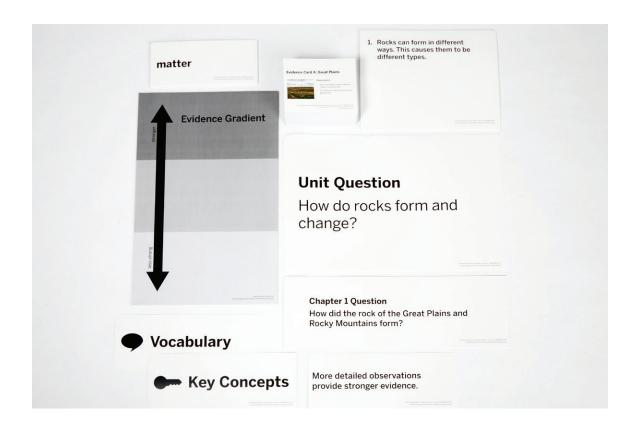
Quantity	Description
20	outlines to paragraphs sheets

## **Rock Transformations**



Materials in this unit are packaged in **1** box.

Quantity	Description
10	rock sets: granite, basalt, sandstone, conglomerate
3	baggies, plastic with zip, gallon
20	lids, for plastic containers
20	containers, plastic, clear
200	cups, plastic, 3 oz
10	conglomerate rocks
300	hard candies
10 sets	sandstone
10 sets	granite
10 sets	basalt
40	dice



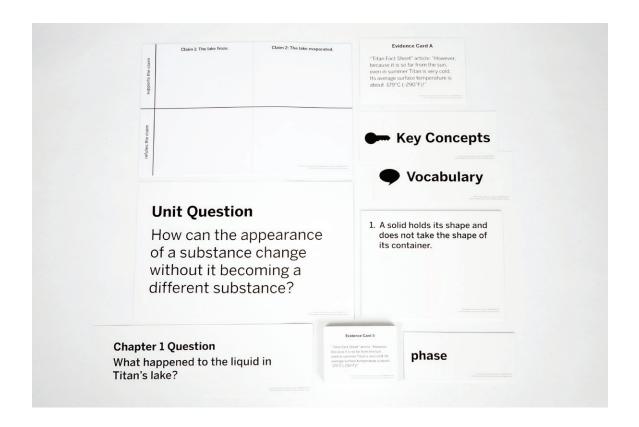
Quantity	Description
20 sets	Great Plains and Rocky Mountains Evidence Cards (8 cards/set)
20	Evidence Gradient cards
2	Key Concepts and Vocabulary cards headers
4	Chapter Questions cards
1	Evidence Criterion card
1	Unit Question card
11	Key Concepts cards
15	Vocabulary cards

## Phase Change



Materials in this unit are packaged in **1** box.

Quantity	Description
120	marbles, magnetic, low-strength
20	containers, plastic clamshell
500	Isopropanol alcohol, bottles
2	cylinders, graduated, 50 mL
50	cups, plastic, 9 oz
10	cups, foam, 8 oz
40	dropper bottles
1	scale, digital
20	lenses, hand



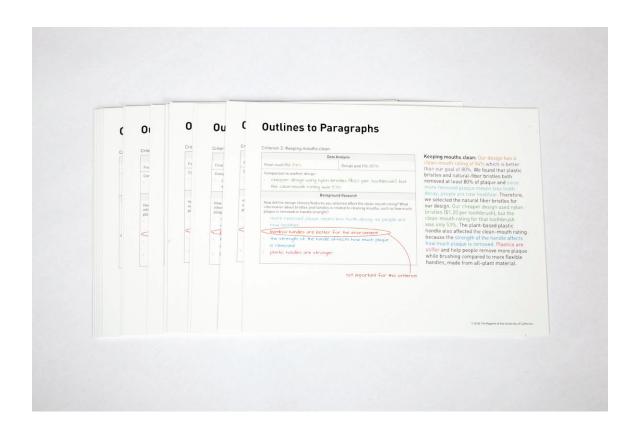
Quantity	Description
20	Titan Evidence Sorting Background cards
20 sets	Titan Evidence cards (4 cards/set)
4	Large Titan Evidence Cards
2	Key Concepts and Vocabulary cards headers
4	Chapter Questions cards
16	Key Concepts cards
1	Unit Question card
8	Vocabulary cards

## Phase Change: Engineering Internship



Materials in this unit are packaged in **1** box.

Quantity	Description
50	handwarmers
1	tongs



Quantity	Description
20	Outlines to Paragraphs sheets

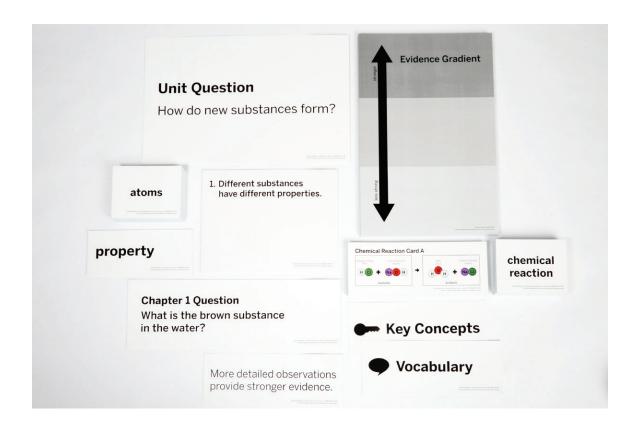
## **Chemical Reactions**



Materials in this unit are packaged in **1** box.

Quantity	Description
184	labels for vials ["pipe substance" (30), "fertilizer" (30), "reddish-brown substance" (10), "sample 1" (10), "sample 2" (10), "sample 3" (10), "sample 4" (10), "well water" (1), "water from pipes" (1), "calcium chloride" (11), "sodium carbonate" (11), "product" (50)]
164	sodium carbonate powder, anhydrous, grams
10	sodium chloride (table salt), tbsp
1	cylinder, graduated, 25 mL
10	potassium chloride powder, tbsp
72	vials, plastic, with lid
240	tokens (plastic), purple
20	tokens (plastic), yellow
164	calcium chloride, grams
1	funnel (plastic), small
120	tokens (plastic), amber

160	tokens (plastic), green
160	tokens (plastic), white
140	tokens (plastic), blue
20	tokens (plastic), gray
11	sodium nitrate powder, tbsp
200	tokens (plastic), red
150	cups, plastic, 9 oz
11	Iron oxide granules, tbsp
1	measuring spoon
10	graphite powder, tbsp
1	measuring cup
10	Iron filings, tbsp
10	cornstarch, tbsp



Quantity	Description
20 sets	Word Relationships cards: set 1 (4 cards/set)
20 sets	Word Relationships cards: set 2 (4 cards/set)
20 sets	Chemical Reaction cards (2 cards/set)
20	Evidence Gradient cards
2	Key Concepts and Vocabulary cards headers
4	Chapter Questions cards
1	Evidence Criterion card
9	Key Concepts cards
1	Unit Question card
9	Vocabulary cards

## Populations and Resources



Materials in this unit are packaged in **1** box.

Quantity	Description
20	measuring spoons, 1 tbsp
10	cylinders, graduated, 50 mL
60	sugar, white, granulated, tsp
250	cups, plastic, 16 oz
150	wooden craft sticks
20	cups, plastic, 9 oz
520	tokens, plastic
200	yeast, baker's, tbsp
1	thermometer



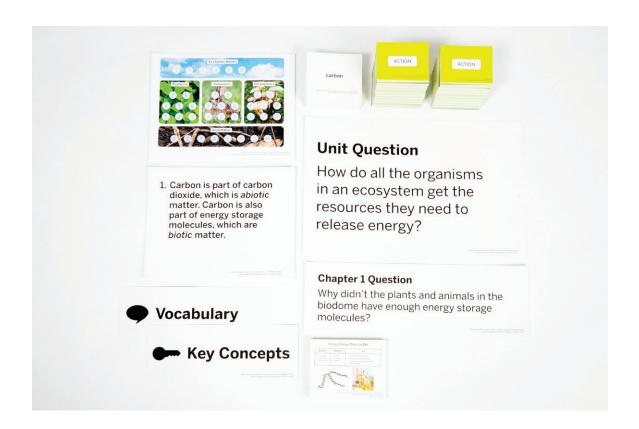
Quantity	Description
20 sets	Population Puzzles Evidence Cards (6 cards/set)
14 sets	Island Population cards (9 cards/set)
20	Evidence Gradient cards
2	Key Concepts and Vocabulary cards headers
4	Chapter Questions cards
1	Evidence Criterion card
1	Unit Question card
11	Key Concepts cards
11	Vocabulary cards

## Matter and Energy in Ecosystems



Materials in this unit are packaged in **1** box.

Quantity	Description
600	carbon tokens
470	paper clips



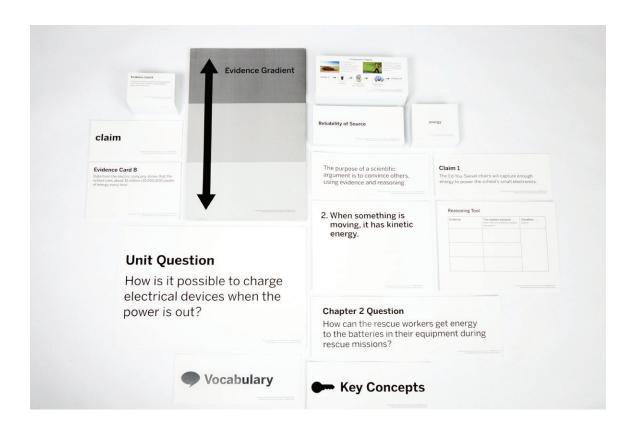
Quantity	Description
10 sets	Energy Storage Molecules cards (4 cards/set)
10 sets	Word Relationships card set (12 cards/set)
20 sets	Carbon Game cards (27 cards/set)
20	Carbon Game boards
2	Key Concepts and Vocabulary cards headers
4	Chapter Questions cards
1	Unit Question card
13	Vocabulary cards
10	Key Concepts

# Harnessing Human Energy



Materials in this unit are packaged in **1** box.

Quantity	Description
20	cables with alligator clips
51	vials, plastic, with lid
10	generators, hand-crank
100	brads, brass plated
10	fan blades, plastic
50	springs, assorted
10	electric motors
1	string, 600 ft
10	battery holder
2	toys, wind-up
1	solar panels
10	batteries, D
20	rubber bands
1	clamp lamp



Quantity	Description
2	Scientific Argumentation Label and Scientific Argumentation Purpose cards
2	Evaluating Evidence Label and Evaluating Evidence Criterion cards
1	components of a Written Scientific Argument card
2	Scientific Argumentation Sentence Starters cards
1	Argumentation Sentence Starters card
1	Scientific Argument diagram
1	Evidence Gradient
1	Reasoning tool
20 sets	Ed-You-Swivel Evidence Cards (8 cards/set)
20 sets	Ed-You-Swivel Claim Cards (3 cards/set)

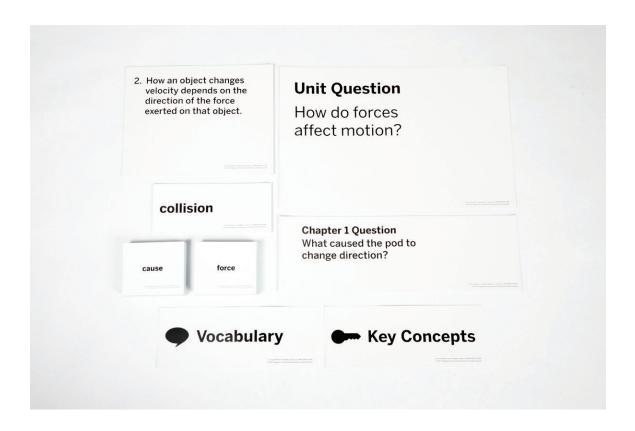
20 sets	Word Relationships cards (5 cards/set)
8	Large Ed-You-Swivel Evidence Cards
21 sets	Energy Source cards (7 cards/set)
20	Evidence Gradient student sheets
3	Large Ed-You-Swivel Claim cards
2	Key Concepts and Vocabulary cards headers
3	Chapter Questions cards
1	Unit Question card
5	Key Concepts cards
11	Vocabulary cards

# Force and Motion



Materials in this unit are packaged in **1** box.

Quantity	Description
40	spring-loaded toilet paper roll holder/spring launchers
20	rulers, 12", center groove
20	balls, table tennis
40	balls, rubber
20	stopwatches
20	balls, golf
40	jar lids



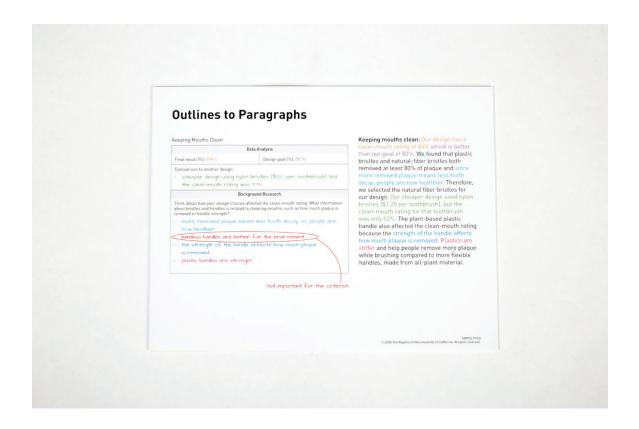
Quantity	Description
20 sets	1.4 Word Relationships cards (4 cards/set)
20 sets	3.3 Word Relationships cards (4 cards/set)
2	Key Concepts and Vocabulary cards headers
4	Chapter Questions cards
1	Unit Question card
7	Key Concepts cards
9	Vocabulary cards

# Force and Motion: Engineering Internship



Materials in this unit are packaged in **1** box.

Quantity	Description
50	deli container, rectangular
100	straws, plastic, unwrapped
15	baggies, plastic with zip
2	string (200 ft/set)
25	steel wool pads
2	scales, digital
100	coffee filters
100	pipe cleaners
40	foam peanuts
500	cotton balls
500	twist ties



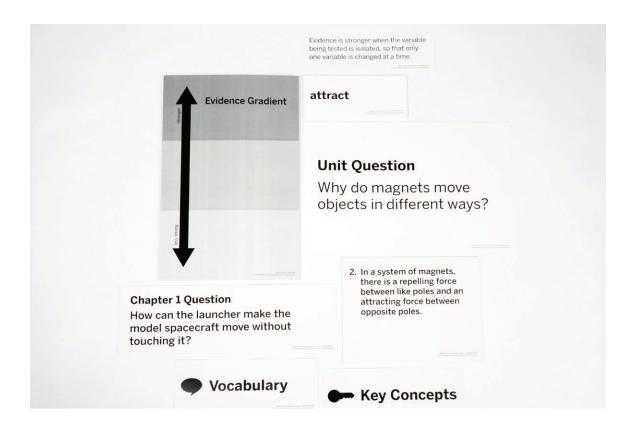
Quantity	Description
20	Outlines to Paragraphs sheets

# Magnetic Fields



Materials in this unit are packaged in **1** box.

Quantity	Description
30	baggies, plastic with zip
20	wooden craft sticks
1	aluminum foil, roll
20	compression springs
20	strong magnets
20	weak magnets
10	rubber balls
20	magnet bars
100	paper clips
10	pom poms
20	rulers



Quantity	Description
20	Evidence Gradient cards
2	Key Concepts and Vocabulary cards headers
4	Chapter Questions cards
1	Evidence Criterion card
8	Key Concepts cards
1	Unit Question card
16	Vocabulary cards

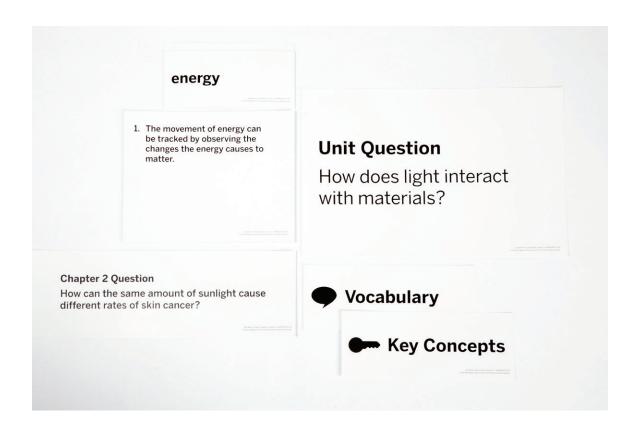
# Light Waves



Materials in this unit are packaged in **1** box.

Quantity	Description
20	cubes, red and green (10 of each color)
1	liquid crystal paper, sheet
10	flashlights, UV (LED bulb)
1	transparency paper, sheet
10	flashlights, incandescent
20	stars, glow-in-the-dark
80	beads, color-changing
1	lightbulb, 60 watt
10	toys, solar-powered

10	bottles, spray
10	laser pointers
5	pipe cleaners
20	binder clips
2	thermometers
1	clamp lamp
10	mirrors



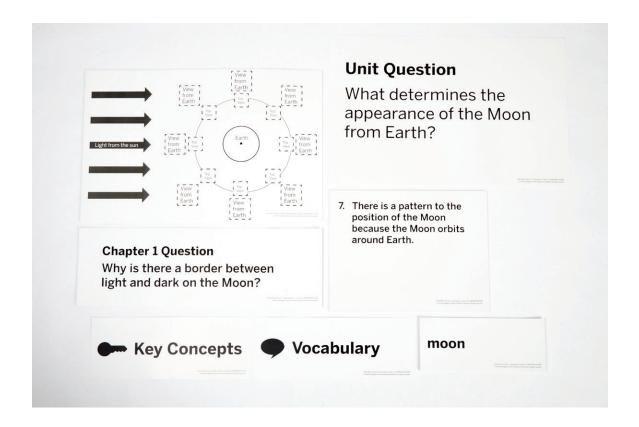
Quantity	Description
2	Key Concepts and Vocabulary cards headers
4	Chapter Questions cards
1	Unit Question card
12	Key Concepts cards
10	Vocabulary cards

# Earth, Moon, and Sun



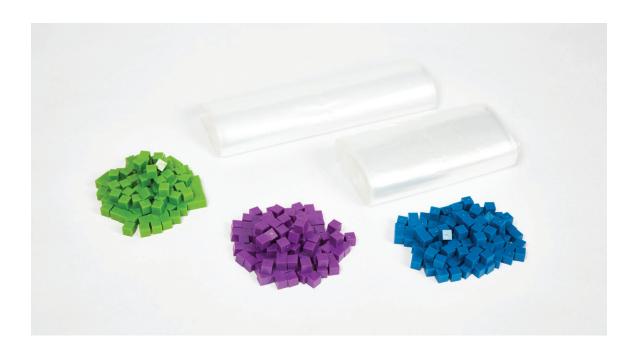
Materials in this unit are packaged in **1** box.

Quantity	Description
40	isosceles triangles cut from transparency
1	lightbulb, 60 watt
41	spheres, foam
41	chopsticks
1	clamp lamp



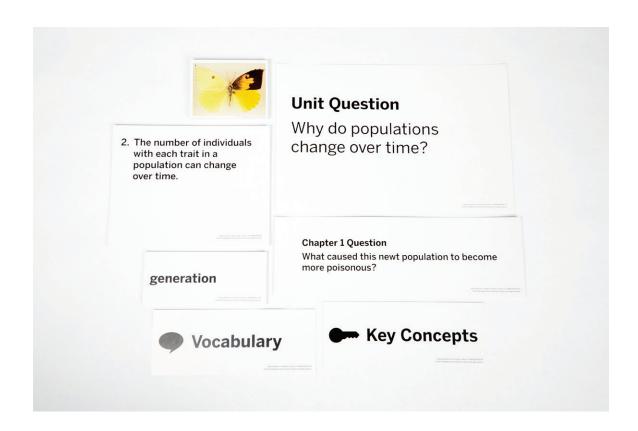
Quantity	Description
10	Moon Phases paper model templates
2	Key Concepts and Vocabulary cards headers
4	Chapter Questions cards
12	Key Concepts cards
1	Unit Question card
9	Vocabulary cards

# Natural Selection



Materials in this unit are packaged in **1** box.

Quantity	Description
100	bags, plastic with zip, quart-size
20	bags, plastic with zip, large
500	counting cubes, purple
500	counting cubes, green
500	counting cubes, blue



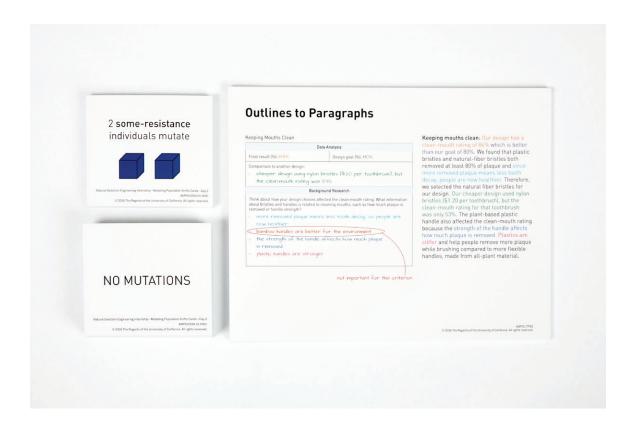
Quantity	Description
2 sets	Butterfly Population Cards (20 cards/set)
2	Key Concepts and Vocabulary cards headers
4	Chapter Questions cards
12	Key Concepts cards
1	Unit Question card
15	Vocabulary cards

# Natural Selection: Engineering Internship



Materials in this unit are packaged in **1** box.

Quantity	Description
20	drawstring bags, non-transparent, small
20	bags, plastic with zip, quart-size
3	bags, plastic with zip, large
500	counting cubes, purple
500	counting cubes, green
500	counting cubes, blue



Quantity	Description
20 sets	Modeling Population Shifts cards (6 cards/set)
20	Outlines to Paragraphs sheets

# **Evolutionary History**



Materials in this unit are packaged in **1** box.

Quantity	Description
1	K'Nex Intermediate Math and Geometry Kit
20	baggies, plastic with zip



Quantity	Description
10 sets	Word Relationships cards: set 1 (5 cards/set)
10 sets	Word Relationships cards: set 2 (6 cards/set)
20 sets	Comparing Body Structure cards (10 cards/set)
20 sets	Structure Change cards (6 cards/set)
20	Comparing Evidence tables (Table 1)
20	Comparing Evidence tables (Table 2)
6	Large Structure Change cards
20 sets	Species cards (9 cards/set)

20	Evidence Gradient cards
9	Large Species cards
2	Key Concepts and Vocabulary cards headers
4	Chapter Questions cards
1	Evidence Criterion card
1	Unit Question card
7	Key Concepts cards
11	Vocabulary cards

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