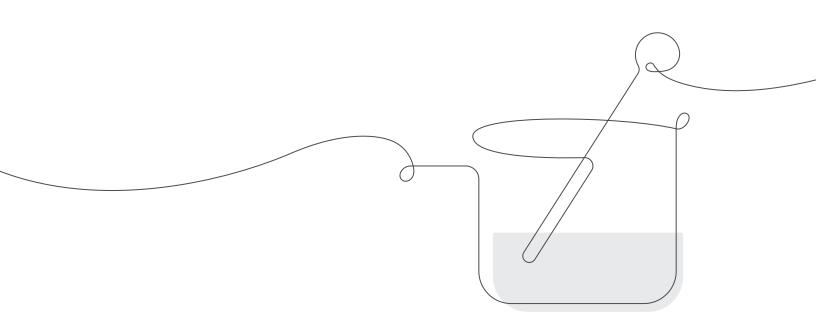
Materials kit list





Amplify.



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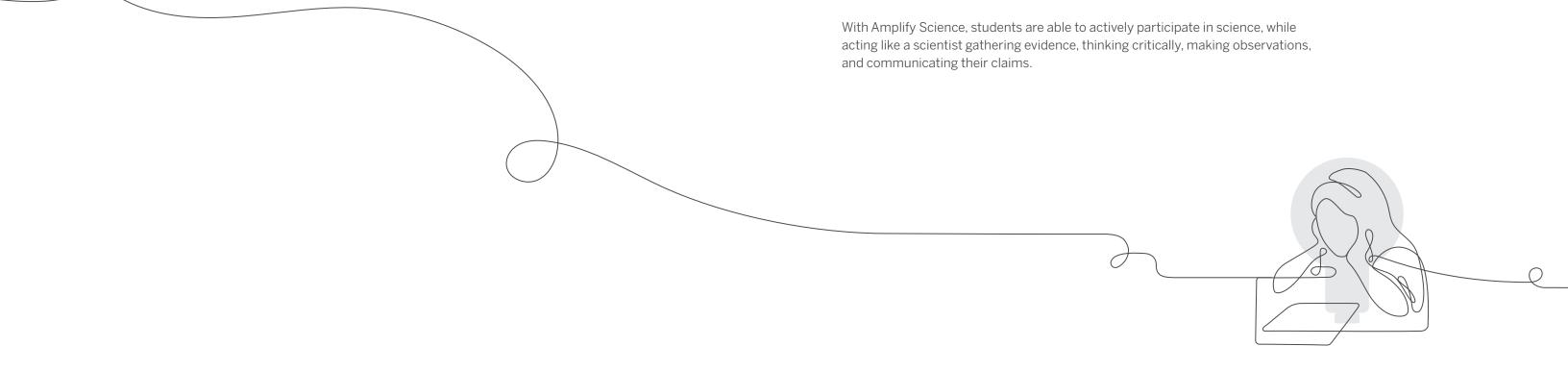
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Hands-on inquiry

Hands-on learning is at the heart of Amplify Science, and is integrated into every unit. Each hands-on activity provides clear instructions for the teacher, while providing easily accessible materials in unit-specific kits.

Each kit contains hands-on materials, both consumable and nonconsumable, and various print materials (e.g., Vocabulary and Key Concept cards). Each kit contains sufficient materials for five uses by a class of 40 students. Refill kits are also available for consumable items. Please note, as improvements are made to hands-on activities, materials lists are subject to change. Check and follow your district's safety regulations pertaining to the use of safety goggles for students participating in hands-on science activities.

Amplify Science also offers a starter kit available for purchase. The starter kit includes general science materials needed to conduct most hands-on activities and experiments for all units in our curriculum program. Items in the starter kit can fulfill some of the teacher-provided kit materials needed for each unit.



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 |

Chemical Reactions:

Mysterious Substance in Westfield's Water

Hands-on materials provided in the Chemical Reactions kit

| Quantity | Description | Used in lesson |
|-----------|---|--------------------|
| 164 grams | calcium chloride granules | 2.1 |
| 1 | cornstarch, container | 1.3 |
| 150 | cups (plastic), 9 oz | 2.1, 2.2, 2.3, 3.3 |
| 1 | cylinder, 25 mL, graduated | 1.2, 2.1 |
| 1 | funnel (plastic), small | 1.2, 1.3 |
| 10 tbsp | graphite powder | 1.3 |
| 10 tbsp | iron filings | 1.2, 1.3 |
| 11 tbsp | iron oxide granules | 1.2 |
| 184 | labels for vials ["pipe substance" (30), "fertilizer" (30), "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)] | 1.2, 1.3, 2.1, 2.3 |
| 1 | measuring scoop | 2.1 |
| 1 | measuring spoon, multi-measure | 1.2, 1.3, 2.1 |
| 10 tbsp | potassium chloride powder | 1.3 |
| 164 grams | sodium carbonate powder, anhydrous | 2.1 |
| 10 tbsp | sodium chloride (table salt) | 1.3 |
| 11 tbsp | sodium nitrate powder | 1.2, 1.3 |
| 120 | tokens (plastic), amber | 2.3 |
| 120 | tokens (plastic), blue | 2.2, 2.3 |
| 20 | tokens (plastic), gray | 2.2 |
| 80 | tokens (plastic), green | 2.2, 2.5, 3.3 |
| 120 | tokens (plastic), purple | 2.2, 2.3, 2.5 |
| 120 | tokens (plastic), red | 2.2, 2.3 |
| 80 | tokens (plastic), white | 2.2, 2.5, 3.3 |
| 20 | tokens (plastic), yellow | 3.3 |
| 72 | vials (plastic), with lid | 1.2, 1.3 |

Print materials provided in the Chemical Reactions kit

| Quantity | Description | Used in lesson |
|-----------------------|--|----------------|
| 20 sets | Chemical Reaction cards (2 cards/set) | 2.2 |
| 20 | Evidence Gradient | 4.1 |
| 20 sets | Word Relationships cards: Set 1 (4 cards/set) | 1.6, 3.3 |
| 20 sets | Word Relationships cards: Set 2 (4 cards/set) | 3.3 |
| Print materials for o | lassroom wall or scientific argumentation wall | |
| 4 | Chapter Questions | throughout |
| 1 | Evidence Criterion card | 1.3 |
| 9 + header | Key Concepts | throughout |
| 1 | Unit Question | 1.2 |
| 8 + header | Vocabulary cards | throughout |

Earth, Moon, and Sun: An Astrophotographer's Challenge

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 |
| Print materials for c | assroom wall or scientific argumentation wall | |
| 1 | Unit Question | 1.2 |
| 4 | Chapter Questions | throughout |
| 12 + header | Key Concepts | throughout |
| 9 + header | Vocabulary cards | throughout |
| | | |

Earth's Changing Climate: Vanishing Ice

Hands-on materials provided in the Earth's Changing Climate kit

| Quantity | Description | Used in lesson |
|----------|--|----------------|
| 20 | bags, plastic, resealable, small | 2.1, 2.6 |
| 10 | sheets energy tokens (48/sheet), yellow perforated | 2.1, 2.6 |
| 120 | paper clips | throughout |

Print materials provided in the Earth's Changing Climate kit

| Quantity | Description | Used in lesson |
|--------------------|---|----------------|
| 1 set | Large Melting Ice Evidence Cards (3 cards/set) | 1.2 |
| 20 sets | Melting Ice Evidence Cards (3 cards/set) | 1.2 |
| 20 sets | Human Activities Evidence Cards (4 cards/set) | 3.1 |
| 1 set | Large Volcano Evidence Cards (10 cards/set) | 4.1-4.3 |
| 20 sheets | Evidence Gradient | 1.2, 3.1, 4.1 |
| Print materials fo | r classroom wall or scientific argumentation wall | |
| 1 | Unit Question | throughout |
| 4 | Chapter Questions | throughout |
| 16 + header | Key Concepts | throughout |
| 16 + header | Vocabulary cards | throughout |
| 1 | Evidence Criterion | throughout |

Earth's Changing Climate Engineering Internship: Rooftops for Sustainable Cities

Hands-on materials provided in the Earth's Changing Climate Engineering Internship kit

| Quantity | Description | Used in lesson |
|----------|-------------------------------|----------------|
| 10 | batteries, AAA | 1 |
| 10 | felt, black, 9" x 12" | 1 |
| 1 | lamp with clamp and reflector | 2 |
| 1 | light bulb, 60 watt | 2 |
| 5 | light meter | 1 |
| 10 | page protector, glossy | 1 |
| 1 | solar-powered fan kit | 2 |

Print materials provided in the Earth's Changing Climate Engineering Internship kit

| Quantity | Description | Used in lesson |
|----------|---------------------|----------------|
| 1 | Design Cycle poster | throughout |

Evolutionary History:

Advising a Paleontology Museum

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 |
| Print materials for | classroom wall or scientific argumentation wall | |
| 1 | Unit Question | 1.2 |
| 4 | Chapter Questions | throughout |
| 7 + header | Key Concepts | throughout |
| 11 + header | Vocabulary cards | throughout |
| 1 | Evidence Criterion | throughout |

Force and Motion:

Docking Failure in Space

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 |
| Print materials for classroom wall or scientific argumentation wall | | |
| 1 | Unit Question | throughout |
| 4 | Chapter Questions | throughout |
| 7 + header | Key Concepts | throughout |
| 9 + header | Vocabulary cards | throughout |

Force and Motion Engineering Internship: Delivering Pods for Emergency Supplies

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 |
|---|------------------------------|----------------|
| Print materials for classroom wall or scientific argumentation wall | | |
| 20 | Outlines to Paragraphs sheet | 8 |

Geology on Mars

Hands-on materials provided in the Geology on Mars kit

| Quantity | Description | Used in lesson |
|----------|----------------------------|----------------|
| 20 | rock samples, basalt | 3.2 |
| 20 | rock samples, conglomerate | 3.2 |
| 1 kit | stream table materials | 2.2, 2.3 |

Print materials provided in the Geology on Mars kit

| Quantity | Description | Used in lesson |
|-----------------------|--|----------------|
| 21 sets | Background Information cards (2 cards/set) | 3.1, 3.2, 3.3 |
| 21 sets | Channel on Mars Evidence Cards (6 cards/set) | 3.1, 3.2, 3.3 |
| 21 | Channel on Mars Evidence Gradient student sheets | 3.2 |
| 10 sets | Comparing Rocky Planets cards (16 cards/set) | 1.1 |
| 20 sets | Geologic Processes cards (2 cards/set) | 1.2 |
| 20 sets | Jelly Donut Evidence Cards: Set 1 (7 cards/set) | 1.3 |
| 20 sets | Jelly Donut Evidence Cards: Set 2 (4 cards/set) | 1.3 |
| 20 sets | Jelly Donut Question and Claim cards (3 cards/set) | 1.3 |
| Print materials for c | lassroom wall or scientific argumentation wall | |
| 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 |

Harnessing Human Energy

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 |
| Print materials for c | lassroom wall or scientific argumentation wall | |
| 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 |

Light Waves: Skin Cancer in Australia

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 |

Magnetic Fields:

Launching a Spacecraft

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 |
| Print materials for | classroom wall or scientific argumentation wall | |
| 1 | Unit Question | 1.2 |
| 4 | Chapter Questions | throughout |
| 8 + header | Key Concepts | throughout |
| 16 + header | Vocabulary cards | throughout |
| 1 | Evidence Criterion | throughout |

Matter and Energy in Ecosystems: Biodome Collapse

Hands-on materials provided in the Matter and Energy in Ecosystems kit

| Quantity | Description | Used in lesson |
|----------|---------------|--------------------------------------|
| 600 | carbon tokens | 3.2 |
| 500 | paper clips* | 1.4, 2.3, 2.5, 3.2, 4.1, 4.2, 4.3 |

^{*}consumable item

Print materials provided in the Matter and Energy in Ecosystems kit

| Quantity | Description | Used in lesson |
|-----------------------|---|----------------|
| 10 sets | Energy Storage Molecules card set (4 cards/set) | 1.4 |
| 10 sets | Word Relationships card set (12 cards/set) | 2.3, 2.5 |
| 20 | Carbon Game board | 3.2 |
| 20 sets | Carbon Game card set (15 Action and 12 Event/set) | 3.2 |
| Print materials for o | classroom wall or scientific argumentation wall | |
| 1 | Unit Question | throughout |
| 4 | Chapter Questions | throughout |
| 10 + header | Key Concepts | throughout |
| 13 + header | Vocabulary cards | throughout |

Metabolism:

Making the Diagnosis

Hands-on materials provided in the Metabolism kit

| Quantity | Description | Used in lesson |
|----------|---|----------------|
| 50 | bags, plastic, self-sealing, quart-sized* | 3.2 |
| 1 | baking soda, container* | 3.2 |
| 10 | bottles, 60 mL, filled with phenol red* | 3.2 |
| 1 | calcium chloride, container* | 3.2 |
| 10 | cylinders, graduated, 25 mL | 3.2 |
| 1 | measuring spoon | 3.2 |
| 200 | pipe cleaners, green | 2.1 |
| 150 | pipe cleaners, purple | 2.1 |
| 75 | pipe cleaners, yellow | 2.1 |
| 1 | stopwatch | 3.1 |
| | | |

^{*}consumable item

Print materials provided in the Metabolism kit

| Quantity | Description | Used in lesson |
|----------|--|----------------|
| 20 sets | Blue Group cards (5 cards/set) | 2.6 |
| 1 set | Elisa's Evidence Cards (5 cards/set) | 1.3 |
| 1 set | Evidence Comparison cards (2 cards/set) | 1.3 |
| 20 | Evidence Gradients | 4.1 |
| 1 set | Heart Failure cards (6 cards/set) | 2.1 |
| 20 sets | Green Group Cards and Key (5 cards/set) | 2.6 |
| 20 sets | Purple Group Cards and Key (5 cards/set) | 2.6 |
| 10 sets | Role Cards (6 cards/set) | 2.1 |
| 1 set | Science Seminar Evidence Cards, large (15 cards/set) | 4.1, 4.2 |
| 1 set | Station Signs (6 signs/set) | 2.1 |

Print materials provided in the *Metabolism* kit (continued)

| Quantity | Description | Used in lesson |
|---------------------|---|--------------------|
| Print materials for | r classroom wall or scientific argumentation wall | |
| 1 | Unit Question | 1.2 |
| 4 | Chapter Questions | 1.2, 2.1, 3.1, 4.1 |
| 10 + header | Key Concepts | throughout |
| 10 + header | vocabulary | throughout |
| 1 | Evidence Criterion Card | 1.3 |

Microbiome

Hands-on materials provided in the *Microbiome* kit

| Quantity | Description | Used in lesson |
|----------|---|----------------|
| 20 sets | Antibiotics Claim and Relevant/Irrelevant Headers (3 cards/set) | 2.3 |
| 20 sets | Antibiotics Evidence Cards (7 cards/set) | 2.3 |
| 20 sets | Bacteria Evidence Cards (10 cards/set)* | 2.6, 2.7 |
| 1 set | Bacteria Evidence Cards, large (2 cards/set) | 2.6 |
| 20 sets | Bacteria Evidence Subclaims (2 cards/set)* | 2.6, 2.7 |
| 1 set | Bacteria Evidence Subclaim 2, large | 2.6 |
| 20 | Evidence Gradient sheets | 2.6 |
| 1 set | Scale cards, large (19 cards/set) | 1.2 |
| 20 sets | Scale cards: set #1 (16 cards/set) | 1.1, 1.2 |
| 20 sets | Scale cards: set #2 (3 cards/set) | 1.2 |
| 20 sets | Word Relationships cards (6 cards/set) | 1.3 |

^{*}consumable item

Print materials provided in the Microbiome kit

| Quantity | Description | Used in lesson |
|-------------|---|----------------|
| 1 | Unit Question | 1.1 |
| 2 | Chapter Questions | throughout |
| 10 + header | Key Concepts | throughout |
| 10 + header | vocabulary | throughout |
| 9 | items for scientific argumentation wall | throughout |

Natural Selection:

Poisonous Newts

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 |
| Print materials fo | r classroom wall or scientific argumentation wall | |
| 4 | Chapter Questions | throughout |
| 10 + header | Key Concepts | throughout |
| 1 | Unit Question | 1.2 |
| 13 + header | Vocabulary cards | throughout |

Natural Selection Engineering Internship:

Fighting Drug-Resistant Malaria

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 |

Ocean, Atmosphere, and Climate: Cold Years in New Zealand

Hands-on materials provided in the Ocean, Atmosphere, and Climate kit

| Quantity | Description | Used in lesson |
|----------|---------------------------------------|----------------|
| 14 | bags, plastic | 2.4 |
| 1 | clamp lamp | 1.3 |
| 20 | cups, foam, 8 ounce, with plastic lid | 2.3 |
| 2 | cups, plastic, 9 ounce | 1.3 |
| 18 | dice | 2.4 |
| 1500 | energy tokens, magnetic, yellow/red | 2.4 |
| 1 | lightbulb, incandescent, 150 watt | 1.3 |
| 1 | pepper, shaker* | 3.2 |
| 1 | ring stand | 1.3 |
| 6 | rocks, black | 1.3 |
| 20 | thermometers | 1.3, 2.3 |
| 70 | stickers, small, white, circular | 2.4 |
| 201 | straws* | 3.2 |
| 11 | tanks, plastic | 3.2 |

^{*}consumable item

Print materials provided in the Ocean, Atmosphere, and Climate kit

| Quantity | Description | Used in lesson |
|-------------------|--|--------------------|
| 1 | Temperature Conversions poster | 1.3 and throughout |
| 14 | Ocean Currents game board | 2.4 |
| Print materials f | or classroom wall or scientific argumentation wall | |
| 1 | Unit Question | throughout |
| 4 | Chapter Questions | throughout |
| 8 + header | Key Concepts | throughout |
| 9 + header | Vocabulary cards | throughout |

Phase Change:

Titan's Disappearing Lakes

Hands-on materials provided in the Phase Change kit

| | B. A. H. | |
|----------|---------------------------------|----------------|
| Quantity | Description | Used in lesson |
| 20 | containers with lids, plastic | 2.2 |
| 10 | cups, foam | 1.3 |
| 50 | cups, plastic* | 1.3 |
| 40 | dropper bottles | 3.2 |
| 2 | isopropanol alcohol, bottles* | 3.2 |
| 20 | lenses, hand | 1.3 |
| 120 | marbles, magnetic, low-strength | 2.2 |
| | | |

^{*}consumable item

Print materials provided in the Phase Change kit

| Quantity | Description | Used in lesson |
|--------------------|---|----------------|
| 20 | Titan evidence cards (4 cards/set) | 2.3 |
| 1 | Large Titan evidence cards (4 cards/set) | 2.3 |
| 20 | Titan evidence sorting background | 2.3 |
| Print materials fo | r classroom wall or scientific argumentation wall | |
| 4 | Chapter Questions | throughout |
| 15 + header | Key Concepts | throughout |
| 1 | Unit Question | throughout |
| 8 + header | Vocabulary cards | throughout |

Phase Change Engineering Internship: Portable Baby Incubators

Hands-on materials provided in the Phase Change Engineering Internship kit

| Quantity | Description | Used in lesson |
|----------|---------------|----------------|
| 50 | hand warmers* | 2 |
| 1 | tongs | 2 |

^{*}consumable item

Print materials provided in the Phase Change Engineering Internship kit

| Quantity | Description | Used in lesson |
|----------|------------------------------|----------------|
| 20 | Outlines to Paragraphs sheet | 8 |

Plate Motion:

Mystery of the Mesosaurus Fossils

Hands-on materials provided in the Plate Motion kit

| Quantity | Description | Used in lesson |
|----------|---|----------------|
| 20 | cubes, 1", plastic | 2.1 |
| 20 | Silly Putty®, containers | 2.1 |
| 20 | towels | 2.3 |
| 40 | transparencies, blank, 8.5" x 11", sheets | 1.3 |
| 48 | wet-erase markers, black | 1.3 |
| 48 | wet-erase markers, red | 1.3 |

Print materials provided in the Plate Motion kit

| Quantity | Description | Used in lesson |
|---------------------|---|----------------|
| 20 sheets | Plate Boundary Map | 1.3 |
| 20 sheets | Earthquake Map | 1.3 |
| 10 sets | Word Relationship cards: set 1 (4 cards/set) | 2.1 |
| 10 sets | Word Relationship cards: set 2 (2 cards/set) | 3.1 |
| Print materials for | classroom wall or scientific argumentation wall | |
| 1 | Unit Question | 1.2 |
| 4 | Chapter Questions | throughout |
| 9 + header | Key Concepts | throughout |
| 14 + header | Vocabulary cards | throughout |

Plate Motion Engineering Internship: Tsunami Warning Systems

Hands-on materials provided in the Phase Change Engineering Internship kit

| Quantity | Description | Used in lesson |
|----------|---------------|----------------|
| 50 | hand warmers* | 2 |
| 1 | tongs | 2 |

^{*}consumable item

Print materials provided in the Plate Motion Engineering Internship kit

| Quantity | Description | Used in day |
|----------|------------------------------|-------------|
| 20 | Outlines to Paragraphs sheet | 8 |

Populations and Resources:

Too Many Moon Jellies

Hands-on materials provided in the Populations and Resources kit

| Quantity | Description | Used in lesson |
|---------------------------------|----------------------------|----------------|
| 20 | cups, plastic, clear, 9 oz | 1.3 |
| 250 | cups, plastic, 12 oz* | 2.2 |
| 10 | graduated cylinder | 2.2 |
| 20 | measuring spoon | 2.2 |
| 150 | stir sticks, wood* | 2.2 |
| 60 teaspoons (10 ounces) | sugar, white, granulated* | 2.2 |
| 1 | thermometer | 2.2 |
| 520 | tokens, plastic | 1.3 |
| 200 tablespoons (100 ounces) | yeast, baker's* | 2.2 |

^{*}consumable item

Print materials provided in the Populations and Resources kit

| Quantity | Description | Used in lesson |
|-----------------------|---|----------------|
| 20 sets | Population Puzzles evidence cards (6 cards/set) | 2.6 |
| 20 | Evidence Gradient | 2.7, 3.4 |
| 14 sets | Island Population cards (9 cards/set) | 4.1 |
| Print materials for c | lassroom wall or scientific argumentation wall | |
| 1 | Unit Question | 1.2 |
| 1 | Evidence Criterion | throughout |
| 4 | Chapter Questions | throughout |
| 11 + header | Key Concepts | throughout |
| 11 + header | Vocabulary cards | throughout |

Rock Transformations:

Geologic Puzzle of the Rockies and Great Plains

Hands-on materials provided in the Rock Transformations kit

| Quantity | Description | Used in lesson |
|----------|---|----------------|
| 40 | dice | 3.3 |
| 300 | pieces of hard candy* | 1.4, 2.3 |
| 200 | plastic cups* | 1.4, 2.3 |
| 20 | plastic jars with lids | 2.3 |
| 10 | rock sets: granite, basalt, sandstone, conglomerate | 1.2, 1.4 |
| 3 | self-sealing plastic bags, gallon size | 1.4 |

^{*}consumable item

Print materials provided in the Rock Transformations kit

| Description | Used in lesson | |
|---|---|--|
| Evidence Gradient | 1.5, 4.1 | |
| Great Plains and Rocky Mountains Evidence Cards (8 cards/set) | 1.5 | |
| Print materials for classroom wall or scientific argumentation wall | | |
| Unit Question | 1.2 | |
| Chapter Questions | throughout | |
| Key Concepts | throughout | |
| Vocabulary cards | throughout | |
| Evidence Criterion | 1.2 | |
| | Evidence Gradient Great Plains and Rocky Mountains Evidence Cards (8 cards/set) assroom wall or scientific argumentation wall Unit Question Chapter Questions Key Concepts Vocabulary cards | |

Thermal Energy:

Using Water to Heat a School

Hands-on materials provided in the Thermal Energy kit

| Quantity | Description | Used in lesson |
|----------|-----------------------|----------------|
| 25 | bags, resealable | 2.4, 3.2 |
| 2 | bowls, plastic | 3.3 |
| 45 | cups, plastic | 1.2, 3.3 |
| 1,000 | energy cubes | 2.4, 2.7, 3.2 |
| 14 | food coloring, boxes* | 1.2 |
| 2 | graduated cylinders | 3.3 |
| 2 | pitchers, plastic | 1.2, 3.3 |
| 20 | thermometers | 1.2, 3.3 |

^{*}consumable item

Print materials provided in the *Thermal Energy* kit

| Quantity | Description | Used in lesson | |
|-----------------------|---|----------------|--|
| 20 sets | Word Relationship cards: set 1 (4/set) | 2.1, 2.5 | |
| 20 sets | Word Relationship cards: set 2 (6/set) | 2.5 | |
| 20 sets | Energy 3-in-a-Row action cards | 2.7 | |
| 20 sets | Energy 3-in-a-Row blue action cards | 2.7 | |
| 20 | Energy 3-in-a-Row game boards | 2.7 | |
| 20 sets | Energy 3-in-a-Row object cards | 2.7 | |
| Print materials for o | Print materials for classroom wall or scientific argumentation wall | | |
| 1 | Unit Question | throughout | |
| 4 | Chapter Questions | throughout | |
| 14 + header | Key Concepts | throughout | |
| 11 + header | Vocabulary cards | throughout | |

Traits and Reproduction: The Constign of Spider Sills

The Genetics of Spider Silk

Hands-on materials provided in the Traits and Reproduction kit

| Quantity | Description | Used in lesson |
|----------|--|----------------|
| 1 | K'NEX® kit, Intermediate Math and Geometry Kit | 1.3, 2.2 |
| 20 | plastic bags, 1 gallon | 1.3, 2.2 |

Print materials provided in the Traits and Reproduction kit

| Quantity | Description | Used in lesson |
|-------------|-------------------|----------------|
| 4 | Chapter Questions | throughout |
| 11 + header | Key Concepts | throughout |
| 1 | Unit Question | 1.2 |
| 13 + header | Vocabulary cards | throughout |

Weather Patterns:

Severe Storms in Galetown

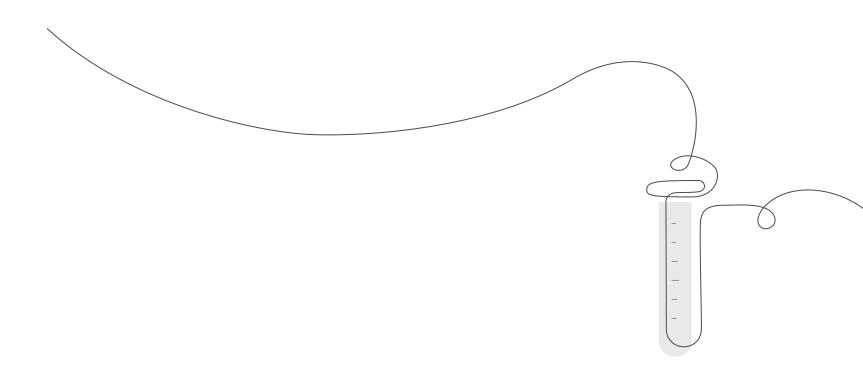
Hands-on materials provided in the Weather Patterns kit

| Quantity | Description | Used in lesson |
|----------|-----------------------------|----------------|
| 100 | sandwich size plastic bags* | 1.3 |
| 1 | plastic dry cleaner bag* | 2.1 |
| 4 | straws | 2.1 |
| 40 | syringes | 3.1 |

^{*}consumable item

Print materials provided in the Weather Patterns kit

| Quantity | Description | Used in lesson |
|---|---|----------------|
| 40 | Evidence Gradient | 3.2, 4.1 |
| 15 sets | Making it Rain card set (54 cards/set) | 2.6 |
| 15 sets | Making it Rain with Jet Streams card set (60 cards/set) | 2.6 |
| 15 sets | Reaching the Target card set (36 cards/set) | 2.6 |
| 1 | Temperature Conversion chart | 1.3 |
| 10 sets | Word Relationship cards (6 cards/set) | 1.6, 2.4 |
| Print materials for classroom wall or scientific argumentation wall | | |
| 1 | Unit Question | 1.2 |
| 4 | Chapter Questions | throughout |
| 11 + header | Key Concepts | throughout |
| 15 + header | Vocabulary cards | throughout |
| 1 | Evidence Criterion | 3.2 |



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