Core Curriculum | Elementary

twig SCIENCE

Hands-On Lab Kits



Flexible Options That Fit Every Classroom

Hands-on investigations are a defining part of the Twig Science experience, driving learning by engaging students and ensuring that they:

- Learn through inquiry-based explorations
- Experience a range of STEM roles
- Apply scientific ideas in meaningful contexts



Hands-On Science Made Easy

Twig Science Hands-On Kits provide teachers with materials to support effective classroom investigations, with three options available for Twig Science Elementary: Module Lab Kits, the Basics Kit for Grades K–6, and optional Science Essentials kits for Grades 3–5.





- Sample Module Lab Kits

Module Lab Kits

Available for every grade, Module Lab Kits contain consumable and nonconsumable materials for each module's hands-on investigation, simplifying planning and reducing prep time.

The Basics Kit

New for K–6, the Basics Kit provides a streamlined set of materials to support module investigations, including only the core items needed by combining select components from the Module and Essentials Kits into a single package.

Science Essentials Kits

Optional Science Essentials kits for Grades 3–5 include high-value multi-purpose equipment.





Grade 1					
Kit Item	**Basic Kit**	**Teacher Supplied**		**Module Lab Kit**	**Teacher Supplied**
4 packs of felt		X		X	
6 lb modeling clay	2			X	
1 skein of yarn		X		X	
100 pipe cleaners		X		X	
400 pom-poms		X		X	
150 sheets of construction paper		100		X	
1 box of non-latex gloves		X		X	
2 packs of beads		X		X	
1 pack of pea seeds				X	
1 pack of sunflower seeds	X			X	
13 resealable plastic bags				X	
300 cotton balls		X		X	
300 index cards		200		X	
210 craft sticks		X		X	
2 boxes of paper clips		X		X	
30 small paper cups		X		X	
2 rolls of masking tape		X		X	
52 paper bags				X	
3 rolls of string	X			X	
2 seed trays	X			X	
1 bag of soil	X			X	
25 large paper cups		X		X	
5 packs of tissue paper		2		X	
60 sheets of card	X			X	
6 packs seeds for observing	X			X	
1 pack of squash seeds	X			X	
1 pack of basil seeds	X			X	
1 pack of radish seeds	X			X	
4 hook and loop fasteners				X	
13 magnifying glasses	X			X	
13 pairs of tweezers		X		X	
18 sets of Living Cards				X	
3 packs of rubber bands (3 sizes)	X			X	
1 pack of balloons	X	X		X	
4 glass jars		X		X	
2 rolls of clear packing tape		X		X	
25 hex nuts	X			X	
18 sets of Animal Cards		PDF available		X	

Grade 1					
Kit Item	**Basic Kit**	**Teacher Supplied**		**Module Lab Kit**	**Teacher Supplied**
2 tuning forks (256 Hz)	X			X	
1 tuning fork (512 Hz)	X			X	
1 set of Parent and Young Cards		PDF available		X	
1 roll of wax paper		X		X	
40 sheets of card stock		X		X	
150 sheets of black construction paper		X		X	
2 pack of cardboard	X			X	
7 cardboard boxes with lids	X			X	
9 flashlights		X		X	
15 small mirrors	X			X	
12 6 oz paper cups				X	
10 transparency sheets		X		X	
1 set of differently colored toy counters	X			X	
50 sheets of yellow construction paper		X		X	
50 sheets of gray construction paper		X		X	
1 lb yellow modeling clay	X			X	
13 sets of Rising and Setting Moon Cards		PDF available		X	
8 small bags of crushed coral				X	
Poster or chart paper					X
Tray					X
Selection of living and non-living objects					X
Adhesive putty					X
Clear tape		X			X
Camera (phone, tablet, etc.)		X			X
Quick-drying markers in a variety of colors		X			X
Water		X			X
A selection of plant parts					X
Computer or tablet		X			X
Crafting materials					X
Scissors		X			X
Glue		X			X
Electric desk fan		X			X
Familiar classroom object					X
Perfume					X
Assortment of plant images					X
Large bowl					X
Cutting board					X
Knife					X

Grade 1					
Kit Item	**Basic Kit**	**Teacher Supplied**		**Module Lab Kit**	**Teacher Supplied**
Salad bowl					X
Fork					X
Plant parts for a salad					X
An animal noise maker		X			X
Paper		X			X
Ruler		X			X
Large bowl or tub		X			X
Device with speaker and volume control		X			X
Small amount of salt, sugar, or uncooked rice		X			X
Towel		X			X
Medium-sized bowl		X			X
Metal spoon		X			X
Materials for communication devices		X			X
Poster board					X
Chart paper		X			X
Marker		X			X
Timer		X			X
Spongy ball		X			X
Classroom objects		X			X
Craft knife		X			X
Stick		X			X
Pencil		X			X
Shiny objects		X			X
Objects with color (not black or white)		X			X
Cloth (dish towel or similar)		X			X
Items to create a dark den		X			X
Selection of everyday objects to view in the dark den		X			X
Classroom items (eraser, sharpener, etc.)		X			X
Large books		X			X
Colored pencils		X			X
Opaque plastic		X			X
Translucent plastic		X			X
Various types of paper		X			X
T-shirt or towel		X			X
Opaque/translucent/transparent classroom materials		X			X
Large mirror		X			X

Grade 1					
Kit Item	**Basic Kit**	**Teacher Supplied**		**Module Lab Kit**	**Teacher Supplied**
Small ball with good bounce		X			X
Model materials (cardboard, poster paper, etc.)		X			X
Flashlight		X			X
Circular object to draw around		X			X
Yellow, gray, and black markers		X			X

Grade 3						
Kit Item	**Basic Kit**	**Teacher Supplied**		**Essentials Kit**	**Module Lab Kit**	**Teacher Supplied**
1 plant light house	X			**X**		
30 pairs of safety goggles (student size)		X		**X**		
8 meter sticks				**X**		
3 1000 mL beakers				**X**		
3 thermometers				**X**		
8 1/4 cup measuring cups	X			**X**		
1 utility knife	X			**X**		
1 pair of safety goggles (adult size)	X			**X**		
1 inflatable globe				**X**		
2 lb modeling clay					X	
2 rolls of string	1 roll				X	
3 packs of dot stickers					X	
300 cotton balls		X			X	
2 rolls of masking tape		X			X	
500 cotton swabs		X			X	
50 craft sticks with holes	X				X	
10 aluminum loaf pans		X			X	
30 bar magnets	X				X	
64 ring magnets	X				X	
18 cases of iron filings	X				X	
8 pieces of nylon fabric	**				X	
8 pieces of wool fabric	X				X	
15 clear plastic trays	X				X	
15 large steel washers	X				X	
600 index cards		300			X	
100 paper clips					X	
1 roll of plastic wrap					X	
156 small steel washers	X				X	
8 plastic bowls					X	

Grade 3						
Kit Item	**Basic Kit**	**Teacher Supplied**		**Essentials Kit**	**Module Lab Kit**	**Teacher Supplied**
9 rubber washers	X				X	
12 balloons	X				X	
16 zinc washers	X				X	
2 table tennis balls	X				X	
16 pipettes	X				X	
1 natural rope		X			X	
9 sets of Materials Cards					X	
16 24 oz large plastic containers	X				X	
1 pack of WFP seeds, Standard variety	X				X	
1 pack of WFP seeds, Purple Stem, Hairy variety	X				X	
12 pollination wands	X				X	
26 cotton wicks	X				X	
300 non-latex gloves (student size)		X			X	
34 plant stakes		X			X	
34 plant support rings		X			X	
2 sticky note pads		X			X	
5 brushes	X				X	
5 spoons	X				X	
1 voucher for 33 painted lady butterfly larvae and food	X				X	
1 butterfly cage	X				X	
1 lb lima bean seeds	X				X	
2 oz fertilizer pellets	X				X	
1 L potting soil	X				X	
2 L potting mix	X				X	
10 anti-algal squares	X				X	
30 sticky labels	X				X	
16 plant labels	X				X	
16 small plastic containers		X			X	
Non-latex gloves (adult size)		X			X	
33 1.25 oz culture vessels with lids		X			X	
33 Kimwipes	X				X	
15 magnifying glasses	X				X	
15 pairs of plastic forceps	X				X	
18 sets of Eggs and Parents Cards		X			X	
64 paper envelopes					X	
16 foam trays					X	
8 resealable plastic bags					X	

Grade 3						
Kit Item	**Basic Kit**	**Teacher Supplied**		**Essentials Kit**	**Module Lab Kit**	**Teacher Supplied**
9 sets of Organisms and Environments Cards		PDF available			X	
1 bottle of red dye					X	
1 bottle of blue dye					X	
9 sets of Climate Cards		PDF available			X	
Ruler 1 per team		X				X
Tray 1 per team		X				X
Poster or chart paper		X				X
Marker		X				X
Aluminum foil 1 roll (25 ft)		X				X
Cup of water						X
Towel						X
Scissors		X				X
Colored pencils 1 set per student		X				X
Clear tape		X				X
Paper and/or cardstock		X				X
Sticky notes		X				X
Pencils		X				X
Piece of shiny silver plastic 1 per team		X				X
Playground ball 1 per pair		X				X
Paper 1 piece						X
Cardboard box with lid 1 per pair						X
Red blue and green colored pencils		X				X
Cup		X				X
Newspaper						X
Heavy object 1 to 3 per team		X				X
Manila rope 6 meters		X				X
Blocks or books 2 to 3 per team						X
Noisemaker (bell) 1						X
Ring magnet 3		X				X
Computer or tablet 1 per pair		X				X
Poster board or cardboard 1 per team		X				X
Tape or glue 1 bottle per pair		X				X
Tape or sticky dots 1 piece per student		X				X
Colored paper (gray, green, brown)		X				X
Water		X				X
Bean bags or balls 1 to 2 per student		X				X

Grade 3						
Kit Item	**Basic Kit**	**Teacher Supplied**		**Essentials Kit**	**Module Lab Kit**	**Teacher Supplied**
Plants 2 per team		X				X
Seeds harvested from Module 2 plants						X
Paper towels		X				X
Classroom calendar		X				X
1 Red and 1 blue dry erase markers		X				X
Poster making materials Variety per student		X				X
Ice		X				X