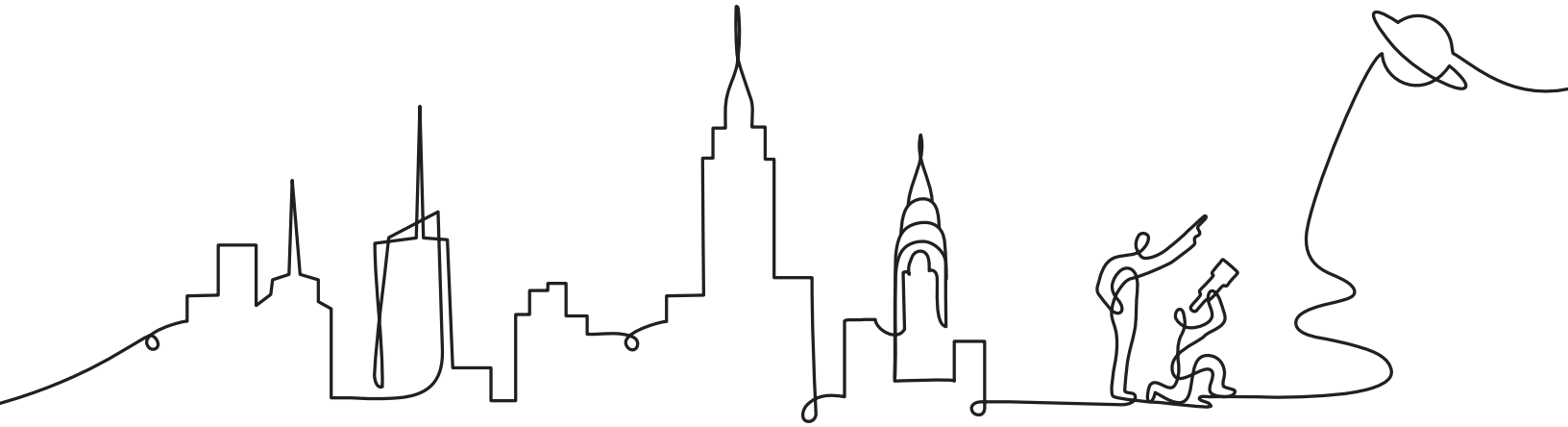

Grade 6 New York City Companion Kit

Materials needed to teach Amplify Science lessons are provided in a kit for each unit. While some of the materials used in the NYC Companion Lessons are also found in a unit's kit, additional materials are needed for most of the companion lessons. Materials specific to the companion lessons are provided in NYC Companion Kits.

There is one NYC Companion Kit for each grade level, with three NYC Companion Kits across Grades 6–8. The kits contain materials needed to teach all NYC Companion Lessons at that grade level. Multiple units are packaged together for ease of storage and use. The kits contain sufficient amounts of materials to present the companion lessons for that grade level five times for a class of 40 students (i.e., 200 students in total).

Materials at a Glance

Note: Check and follow your district's safety regulations pertaining to the use of proper safety equipment and procedures for students participating in hands-on science activities.

Items Provided in the Grade 6 NYC Companion Kit

The following is a complete list of all the kit-provided materials needed to present the grade 6 NYC Companion Lessons five times for a class of 40 students.

Note: The NYC Companion Kit for grade 6 may contain additional quantities of some items.

Quantity Needed	Manipulatives	Used in Companion Lesson	Associated Unit
1	aluminum foil, roll*	Investigating Electrical Devices	Harnessing Human Energy
20	binder clips, small	Investigating Electrical Devices	Harnessing Human Energy
50	craft sticks, wooden*	Investigating Electrical Devices	Harnessing Human Energy
10	incandescent lightbulbs	Investigating Electrical Devices	Harnessing Human Energy
10	lightbulb sockets	Investigating Electrical Devices	Harnessing Human Energy
1	balloon pump	Investigating Non-Touching Forces	Harnessing Human Energy
100	balloons*	Investigating Non-Touching Forces	Harnessing Human Energy
10	faux fur fabric, pieces	Investigating Non-Touching Forces	Harnessing Human Energy
10	cotton flannel, pieces	Investigating Non-Touching Forces	Harnessing Human Energy
100	foam peanuts	Investigating Non-Touching Forces	Harnessing Human Energy
10	rulers	Investigating Non-Touching Forces	Harnessing Human Energy
20	strong magnets	Investigating Non-Touching Forces	Harnessing Human Energy
20	weak magnets	Investigating Non-Touching Forces	Harnessing Human Energy
300	bags, plastic with zip, quart size*	Designing Hot and Cold Packs	Thermal Energy
300	baking soda, teaspoons (about 1740 g)*	Designing Hot and Cold Packs	Thermal Energy
10	"baking soda" labels	Designing Hot and Cold Packs	Thermal Energy

*consumable item

Quantity Needed	Manipulatives	Used in Companion Lesson	Associated Unit
300	calcium chloride, teaspoons (about 1350 g)*	Designing Hot and Cold Packs	Thermal Energy
10	"calcium chloride" labels	Designing Hot and Cold Packs	Thermal Energy
300	citric acid, teaspoons (about 1440 g)*	Designing Hot and Cold Packs	Thermal Energy
10	"citric acid" labels	Designing Hot and Cold Packs	Thermal Energy
5	cold packs (instant)*	Designing Hot and Cold Packs	Thermal Energy
50	cups, plastic, 9 oz.	Designing Hot and Cold Packs	Thermal Energy
10	graduated cylinders, 50 mL	Designing Hot and Cold Packs	Thermal Energy
5	hot packs (instant)*	Designing Hot and Cold Packs	Thermal Energy
30	lids for plastic cups	Designing Hot and Cold Packs	Thermal Energy
30	measuring spoon sets	Designing Hot and Cold Packs	Thermal Energy
20	squeeze bottles	Designing Hot and Cold Packs	Thermal Energy
1	bin, clear plastic	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
10	cups, foam, large, 24 oz.	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
42	cups, foam, small, 8 oz.	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
40	droppers	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
5	food coloring sets: red, blue, yellow, green*	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
10	lids for large foam cups	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
40	lids for small foam cups	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
1	modeling clay, pound	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
12.5	salt, cups*	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
150	straws, clear plastic*	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate

*consumable item

Items to Be Provided by the Teacher

The quantities listed are what you will need to provide to teach the Grade 6 NYC Companion Lessons once for a class of 40 students. Please note that you will need to replenish the consumable items after each class use.

Quantity Needed	Manipulatives	Used in Companion Lesson	Associated Unit
2	cards, index, large	Investigating Electrical Devices	Harnessing Human Energy
2	cards, index, large	Investigating Electrical Devices	Harnessing Human Energy
1	marker	Investigating Electrical Devices	Harnessing Human Energy
2	masking tape, rolls*	Investigating Electrical Devices	Harnessing Human Energy
200	paper clips. assorted sizes*	Investigating Electrical Devices	Harnessing Human Energy
100	rubber bands*	Investigating Electrical Devices	Harnessing Human Energy
10	trays	Investigating Electrical Devices	Harnessing Human Energy
	optional: additional building materials such as pieces of cardboard, pencil erasers, metal nuts, bolts, and washers	Investigating Electrical Devices	Harnessing Human Energy
3	cards, index, large	Investigating Non-Touching Forces	Harnessing Human Energy
1	marker	Investigating Non-Touching Forces	Harnessing Human Energy
100	paper clips	Investigating Non-Touching Forces	Harnessing Human Energy
1	paper towel, roll	Investigating Non-Touching Forces	Harnessing Human Energy
10	trays	Investigating Non-Touching Forces	Harnessing Human Energy
	water	Investigating Non-Touching Forces	Harnessing Human Energy
1	card, index, large	Reading About Non-Touching Forces	Harnessing Human Energy
1	marker	Reading About Non-Touching Forces	Harnessing Human Energy
10	markers, permanent	Designing Hot and Cold Packs	Thermal Energy
40	safety goggles	Designing Hot and Cold Packs	Thermal Energy

*consumable item

Quantity Needed	Manipulatives	Used in Companion Lesson	Associated Unit
10	trays	Designing Hot and Cold Packs	Thermal Energy
6	waste containers	Designing Hot and Cold Packs	Thermal Energy
	water*	Designing Hot and Cold Packs	Thermal Energy
1	card, index, large	Reading "The Amazing Variety of Life in a Coral Reef"	Populations and Resources
1	marker	Reading "The Amazing Variety of Life in a Coral Reef"	Populations and Resources
1	marker	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
1	measuring cup, 2-cup	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
1	measuring spoon, tablespoon	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
1	paper, white, sheet	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
1	pitcher, large	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
2	push pins	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
10	sets of 4 colored pencils or crayons (red, blue, green, yellow)	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
1	spoon, large	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
4	tape, pieces*	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
10	trays	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
10	waste containers, small	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate
	water (hot, cold, and room temperature)*	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate

*consumable item

Items from Other Amplify Science Kits

The items listed below are provided in the Amplify Science kits for *Harnessing Human Energy*; *Thermal Energy*; and *Ocean, Atmosphere, and Climate*. Please note that you will need to locate these items prior to teaching the associated Grade 6 companion lessons.

Quantity Needed	Manipulatives	Used in Companion Lesson	Associated Unit
10	batteries, D cell	Investigating Electrical Devices	Harnessing Human Energy
10	battery holders	Investigating Electrical Devices	Harnessing Human Energy
1	metal brads, box	Investigating Electrical Devices	Harnessing Human Energy
50	springs, assorted	Investigating Electrical Devices	Harnessing Human Energy
20	wires with alligator clips	Investigating Electrical Devices	Harnessing Human Energy
20	thermometers	Designing Hot and Cold Packs	Thermal Energy
6	rocks, black	Investigating Deep Ocean Currents	Ocean, Atmosphere, and Climate