

Grade 4 Complete Materials Overview

Combined kit-provided and teacher-provided materials for one class of up to 30 students. 68 kit entries and 42 teacher entries. Repeated materials are consolidated to the largest single-lesson quantity unless the guide states an exact shared-kit quantity.

Source: ISK-KitMaterials-Grade4-FINAL-digital.pdf

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Common	Black plate	10	- Physical Sciences Unit 1: Lesson 5 - Physical Sciences Unit 2: Lesson 3 - Life Sciences: Lesson 5	Yes	Shared across units.
Kit	Common	Feathers	1 bag	- Earth and Space Sciences: Lesson 1 - Life Sciences: Lesson 3 - Engineering Design: Lesson 1	No	Shared across units.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Common	Flashlight	10	- Physical Sciences Unit 1: Lesson 5 - Physical Sciences Unit 2: Lesson 3 - Life Sciences: Lesson 5	Yes	Shared across units.
Kit	Common	Glass jar with lid	6	Physical Sciences Unit 1: Lessons 3, 4, 5	Yes	Shared across units.
Kit	Common	Gluesticks	6	- Earth and Space Sciences: Lesson 5 - Physical Sciences Unit 1: Lesson 2	No	Shared across units.
Kit	Common	Hand lens	18	- Earth and Space Sciences: Lesson 2 - Physical Sciences Unit 1: Lesson 5 - Life Sciences: Lesson 1	Yes	Shared across units.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Common	Roll of masking tape	3	• Earth and Space Sciences: Lesson 5 • Physical Sciences Unit 1: Lessons 2, 5, 6 • Life Sciences: Lesson 2 • Engineering Design: Lessons 1, 3	No	Shared across units.
Kit	Common	Measuring cups	10	• Physical Sciences Unit 1: Lesson 4 • Engineering Design: Lesson 3	Yes	Shared across units.
Kit	Common	Measuring tape	6	• Physical Sciences Unit 1: Lesson 1 • Engineering Design: Lesson 3	Yes	Shared across units.
Kit	Common	Multicolor beads	1 bag	• Earth and Space Sciences: Lesson 1 • Physical Sciences Unit 1: Lesson 3	Yes	Shared across units.
Kit	Common	Permanent marker	1	• Earth and Space Sciences: Lesson 2	Yes	Shared across units.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Common	Plastic bin	3	• Earth and Space Sciences: Lesson 3 • Physical Sciences Unit 2: Lesson 2	Yes	Shared across units.
Kit	Common	Plastic bowl	10	• Physical Sciences Unit 1: Lessons 4, 5 • Physical Sciences Unit 2: Lesson 1	Yes	Shared across units.
Kit	Common	Plastic cups	100	• Earth and Space Sciences: Lesson 3 • Physical Sciences Unit 1: Lesson 2	No	Shared across units.
Kit	Common	Rocks	18	• Earth and Space Sciences: Lesson 2	Yes	Shared across units.
Kit	Common	scissors	1	• Earth and Space Sciences: For teacher use	Yes	Shared across units.
Kit	Common	Ball of string	3	• Earth and Space Sciences: Lesson 5 • Physical Sciences Unit 1: Lessons 2, 3 • Engineering Design: Lessons 1, 2	No	Shared across units.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Earth and Space Sciences	Ball of modeling clay	4 packs	• Earth and Space Sciences L1	No	Each pair needs 4 different colors for visible layers.
Kit	Earth and Space Sciences	Plastic knife	15	• Earth and Space Sciences L1	Yes	
Kit	Earth and Space Sciences	Sand	1kg	• Earth and Space Sciences L3	No	
Kit	Earth and Space Sciences	Sticky notes	1 pack	• Earth and Space Sciences L4	No	
Kit	Engineering Design	2oz plastic cups	12	• Engineering Design L2	No	
Kit	Engineering Design	Binder clips	24	• Engineering Design L3	Yes	
Kit	Engineering Design	Bird seed	2 bags	• Engineering Design L2	No	
Kit	Engineering Design	Chenille sticks	100	• Engineering Design L1	No	
Kit	Engineering Design	Corn syrup	1 bottle	• Engineering Design L2	No	Use as 'glue' to stick seeds to parts of the feeder, if desired.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Engineering Design	Craft sticks	100	• Engineering Design L2 • Engineering Design L3	No	Lesson quantities shown: 50; 100. Overview uses the largest single-lesson quantity.
Kit	Engineering Design	Paper bowl	8	• Engineering Design L1	No	Students can poke holes in paper bowl to attach materials.
Kit	Engineering Design	Paper cups	12	• Engineering Design L3	No	
Kit	Engineering Design	Pom poms	80	• Engineering Design L1	No	
Kit	Engineering Design	Straws	50	• Engineering Design L1 • Engineering Design L3	No	
Kit	Life Sciences	Brown paper bag	24	• Life Sciences L4	Yes	Each group will need 6 bags - 3 for the ‘touch’ objects and 3 for the ‘smells’.
Kit	Life Sciences	Cocoa powder	1 tin	• Life Sciences L4	No	For a ‘smell’ bag. Sprinkle directly into the bag. Can substitute with any other item with distinctive smell.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Life Sciences	Cotton balls	1 bag	• Life Sciences L4	Yes	Use in the ‘smell bags’ - place a few drops of the liquids on a few balls, and place in a bag, to avoid the bag getting wet or oily. Also an option for another ‘feel’ bag.
Kit	Life Sciences	Feather	6	• Life Sciences L4	Yes	For a ‘feel’ bag. Substitute with any other object with a distinctive shape or texture.
Kit	Life Sciences	Food coloring	1 bottle	• Life Sciences L1	No	Stand celery in colored water for a few hours.
Kit	Life Sciences	Mirror	10	• Life Sciences L5	Yes	
Kit	Life Sciences	Paper plate	6	• Life Sciences L1	No	To place the vegetables on. Teacher can place seeds on plate.
Kit	Life Sciences	Peppermint extract	1 bottle	• Life Sciences L4	No	For a ‘smell’ bag. Sprinkle on a few cotton balls and place in a bag. Can substitute with any other item with distinctive smell.
Kit	Life Sciences	Plastic comb	6	• Life Sciences L4	Yes	For a ‘feel’ bag. Substitute with any other object with a distinctive shape or texture.
Kit	Life Sciences	Sticky notes	1 pack	• Life Sciences L2	No	
Kit	Life Sciences	Tissue paper	10	• Life Sciences L5	No	

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Life Sciences	Toothbrush	6	Life Sciences L4	Yes	For a ‘feel’ bag. Substitute with any other object with a distinctive shape or texture.
Kit	Life Sciences	Vinegar	1 bottle	Life Sciences L4	No	For a ‘smell’ bag. Sprinkle on a few cotton balls and place in a bag. Can substitute with any other item with distinctive smell.
Kit	Physical Sciences (Unit 1)	AA battery	6	- Physical Sciences L5 - Physical Sciences L6	Yes	Students will use circuit built in activity 4.
Kit	Physical Sciences (Unit 1)	Alligator clips	12	- Physical Sciences L5 - Physical Sciences L6	Yes	Students will use circuit built in activity 4.
Kit	Physical Sciences (Unit 1)	Axle	4	Physical Sciences L6	Yes	
Kit	Physical Sciences (Unit 1)	Black felt	6	- Physical Sciences L4 - Physical Sciences L5	Yes	Can use dish towels or any fabric. Felt is reused in Lesson 5. Use in Station 2. Lesson quantities shown: 6; 3. Overview uses the largest single-lesson quantity.
Kit	Physical Sciences (Unit 1)	Bubble wrap	3	Physical Sciences L5	Yes	Use in Station 2.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Physical Sciences (Unit 1)	Bulb socket	6	- Physical Sciences L5 - Physical Sciences L6	Yes	Students will use circuit built in activity 4.
Kit	Physical Sciences (Unit 1)	Buzzer	6	Physical Sciences L6	Yes	
Kit	Physical Sciences (Unit 1)	Marbles	40	Physical Sciences L2	Yes	
Kit	Physical Sciences (Unit 1)	Metal fork	10	Physical Sciences L3	Yes	
Kit	Physical Sciences (Unit 1)	Mini bulb	6	- Physical Sciences L5 - Physical Sciences L6	Yes	Students will use circuit built in activity 4.
Kit	Physical Sciences (Unit 1)	Motor	6	Physical Sciences L6	Yes	
Kit	Physical Sciences (Unit 1)	Pom poms	9	Physical Sciences L5	Yes	Use in Station 2.
Kit	Physical Sciences (Unit 1)	Propeller	6	Physical Sciences L6	Yes	
Kit	Physical Sciences (Unit 1)	Straws	24	Physical Sciences L6	Yes	

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Physical Sciences (Unit 1)	Switch	6	- Physical Sciences L5 - Physical Sciences L6	Yes	Students could design their own working switch, or use the one provided.
Kit	Physical Sciences (Unit 1)	Thermometer	6	Physical Sciences L4	Yes	Students need to handle thermometers carefully.
Kit	Physical Sciences (Unit 1)	Toy car	6	Physical Sciences L1	Yes	
Kit	Physical Sciences (Unit 1)	Triangle	1	Physical Sciences L3	Yes	Teacher can substitute any percussion instrument.
Kit	Physical Sciences (Unit 1)	Wheel	8	Physical Sciences L6	Yes	
Kit	Physical Sciences (Unit 1)	Wood block	6	Physical Sciences L1	Yes	
Kit	Physical Sciences (Unit 1)	Yellow fabric	1	Physical Sciences L5	Yes	Use in Station 2. Teacher can cut into smaller pieces if used in groups.
Kit	Physical Sciences (Unit 2)	Eye dropper	10	Physical Sciences L1	Yes	

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Physical Sciences (Unit 2)	Jump rope	5	- Physical Sciences L1 - Physical Sciences L2	Yes	
Kit	Physical Sciences (Unit 2)	Rubber duck	3	Physical Sciences L2	Yes	
Teacher	Earth and Space Sciences	Collected items	30	Earth and Space Sciences L1	No	Teachers can provide other items to represent fossils such as shells, twigs, leaves, or even some small figures.
Teacher	Earth and Space Sciences	Freezer	1	Earth and Space Sciences L2	No	One bottle is placed in the freezer, while the other is left out in the classroom.
Teacher	Earth and Space Sciences	Pitcher of water	1	Earth and Space Sciences L3	No	
Teacher	Earth and Space Sciences	Plastic bottle with lid	2	Earth and Space Sciences L2	No	Any identical recycled bottles.
Teacher	Earth and Space Sciences	Rocks	30	Earth and Space Sciences L2	No	Take students outdoors to find their rock, or have them select one from a collection.
Teacher	Engineering Design	Apple or small fruit	5	Engineering Design L2	No	Option to use in place of bird seed.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Engineering Design	Blocks	50	Engineering Design L3	No	Optional Makerspace Materials.
Teacher	Engineering Design	Cardboard or various recycled materials	30	Engineering Design L2	No	Various recycled materials such as cardboard tubes, clean empty bottles.
Teacher	Engineering Design	Jug of water	1	Engineering Design L3	No	To test the water irrigation system.
Teacher	Engineering Design	Large paper	6	Engineering Design L3	No	To sketch design.
Teacher	Engineering Design	Sticks	30	- Engineering Design L1 - Engineering Design L2	No	Optional materials found outside.
Teacher	Engineering Design	Sticky tack	8	Engineering Design L3	No	Optional Makerspace Materials.
Teacher	Life Sciences	Broccoli floret	6	Life Sciences L1	No	Teachers can substitute other vegetables that are the flower part of the plant, such as cauliflower or artichoke.
Teacher	Life Sciences	Carrot	6	Life Sciences L1	No	Teachers can substitute another root vegetable, such as parsnip, turnip or beet.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Life Sciences	Celery stalk	15	Life Sciences L1	No	Teachers can substitute other vegetables that are the stem part of the plant, such as rhubarb or asparagus. Lesson quantities shown: 6; 15. Overview uses the largest single-lesson quantity.
Teacher	Life Sciences	Knife	1	Life Sciences L1	No	It may be useful to cut vegetables to show students the inside. You might like to also include a cutting board. Teacher use only. For cutting the seed coat so students can peel it off, and for cutting across the celery. Lesson quantities shown: See guide; 1. Overview uses the largest single-lesson quantity.
Teacher	Life Sciences	Lettuce leaf	6	Life Sciences L1	No	Teachers can substitute other leafy vegetables, such as spinach or cabbage.
Teacher	Life Sciences	Pea pods or green beans	15	Life Sciences L1	No	If pea pods (such as sugar snap peas) can't be obtained, teacher can substitute beans such as broad beans or soy beans.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Life Sciences	Tomato	6	Life Sciences L1	No	Teachers can substitute other vegetables that are in fact fruits (that grow from a flower), such as pepper, zucchini, cucumber, pumpkin.
Teacher	Life Sciences	Vanilla extract	1 bottle	Life Sciences L4	No	Optional for creating another 'smell' bag.
Teacher	Multiple disciplines	Books	10	- Earth and Space Sciences L3 - Engineering Design L3	No	Optional Makerspace Materials. Lesson quantities shown: 4; 10. Overview uses the largest single-lesson quantity.
Teacher	Multiple disciplines	Camera (or device with camera)	10	- Physical Sciences L2 - Earth and Space Sciences L3	No	Optional for recording slow motion video. Optional to record slow motion video. Lesson quantities shown: 10; See guide. Overview uses the largest single-lesson quantity.
Teacher	Multiple disciplines	Internet- enabled device	30	- Life Sciences L5 - Physical Sciences L2 - Earth and Space Sciences L1 - Earth and Space Sciences L4	No	Individual or Pair activity, depending on the number of devices available. Lesson quantities shown: 30; 15. Overview uses the largest single-lesson quantity.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Multiple disciplines	Marker	32	• Life Sciences L4 • Physical Sciences L3	No	Lesson quantities shown: 32; 30. Overview uses the largest single-lesson quantity.
Teacher	Multiple disciplines	Piece of paper	30	• Life Sciences L4 • Physical Sciences L2	No	Lesson quantities shown: 8; 30. Overview uses the largest single-lesson quantity.
Teacher	Multiple disciplines	Pencil	30	• Physical Sciences L3 • Engineering Design L1 • Engineering Design L3	No	Students can use a pencil to strike the fork and listen to the sound. Optional for teacher to provide metal spoons to experiment with different materials. Students can use pencil or other sharp objects to poke holes in the bowl. To sketch design. Lesson quantities shown: 10; 20; 30. Overview uses the largest single-lesson quantity.
Teacher	Multiple disciplines	Recycled materials	30	• Physical Sciences L2 • Earth and Space Sciences L5	No	Use everyday maker space materials: cardboard boxes, blocks, food containers. Any kind of easily found building materials, such as but not limited to cardboard boxes, blocks, clean and empty food containers.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Multiple disciplines	Research materials	30	• Life Sciences L1 • Life Sciences L2 • Physical Sciences L7 • Earth and Space Sciences L5	No	Internet-enabled devices, relevant books and magazines.
Teacher	Multiple disciplines	Scissors	30	• Physical Sciences L2 • Earth and Space Sciences L5	No	
Teacher	Multiple disciplines	Water	10	• Physical Sciences L1 • Earth and Space Sciences L2	No	Fill the bowl with water to set up activity. Enough water to fill the two plastic bottles. Lesson quantities shown: 10; See guide. Overview uses the largest single-lesson quantity.
Teacher	Physical Sciences	Cardboard tube of different lengths	6	• Physical Sciences L5	No	Use in Station 1. Recycled materials such as paper towel roll. Alternatively students can make a tube with a piece of paper.
Teacher	Physical Sciences	Colored pencils (including black)	60	• Physical Sciences L4	No	
Teacher	Physical Sciences	Cup of very cold water	6	• Physical Sciences L4	No	To be carefully poured into the bowl.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Physical Sciences	Cup of warm water	6	Physical Sciences L4	No	Water should be quite warm, but not boiling. You can pour it directly into the jars that are placed in the bowls.
Teacher	Physical Sciences	Flat surface	6	Physical Sciences L1	No	Surface for ramp such as cardboard, book, ruler, or whiteboard.
Teacher	Physical Sciences	Grid paper	30	Physical Sciences L4	No	May be printed directly from the online lesson page, if you do not have grid paper.
Teacher	Physical Sciences	Ice cubes	3	Physical Sciences L5	No	Use in Station 3.
Teacher	Physical Sciences	Lamp	1	Physical Sciences L5	No	Use in Station 3. If the bulb does not emit heat (as it is LED), ensure discussion with students to distinguish between the effect of light and heat.
Teacher	Physical Sciences	Large piece of paper	8	Physical Sciences L3	No	

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Physical Sciences	Recording device	10	- Physical Sciences L2 - Physical Sciences L1	No	Optional for students to make an audio recording of their observations. Optional for students to record slow motion video. Lesson quantities shown: 10; See guide; 3. Overview uses the largest single-lesson quantity.
Teacher	Physical Sciences	Recycled cardboard	24	Physical Sciences L6	No	Teachers can provide any recycled materials for maker materials or students can bring from home.
Teacher	Physical Sciences	Timer, or device with a timer	6	Physical Sciences L4	No	A clock in the classroom is sufficient to measure the time period.