

Grade 5 Complete Materials Overview

Combined kit-provided and teacher-provided materials for one class of up to 30 students. 56 kit entries and 38 teacher entries. Repeated materials are consolidated to the largest single-lesson quantity unless the guide states an exact shared-kit quantity.

Source: ISK-KitMaterials-Grade5-FINAL-Digital.pdf

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Common	8oz jar with lid	8	- Life Sciences: Lesson 3 - Physical Sciences: Lesson 4 - Engineering Design: Lesson 1, 2	Yes	Shared across units.
Kit	Common	Balloons	35	- Physical Sciences: Lesson 1, 4 - Earth and Space Sciences (Unit 1): Lesson 2	No	Shared across units.
Kit	Common	Gluestick	6	Earth and Space Sciences (Unit 1): Lesson 4	No	Shared across units.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Common	Roll of masking tape	2	• Life Sciences: Lesson 2 • Earth and Space Sciences (Unit 1): Lesson 4 • Earth and Space Sciences (Unit 2): Lesson 2	No	Shared across units.
Kit	Common	Measuring tape	12	• Life Sciences: Lesson 2 • Earth and Space Sciences (Unit 1): Lesson 1, 3	Yes	Shared across units.
Kit	Common	Permanent marker	3	• Life Sciences: Lesson 2 • Earth and Space Sciences (Unit 2): Lesson 3	Yes	Shared across units.
Kit	Common	Pipette	20	• Earth and Space Sciences (Unit 1): Lesson 5 • Earth and Space Sciences (Unit 2): Lesson 3, 5 • Engineering Design: Lesson 2, 3	Yes	Shared across units.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Common	Pitcher	3	- Physical Sciences: Lesson 1, 2, 3 - Earth and Space Sciences (Unit 1): Lesson 5 - Earth and Space Sciences (Unit 2): Lesson 3 - Engineering Design: Lesson 2	Yes	Shared across units.
Kit	Common	Plastic beads	1 bag	- Physical Sciences: Lesson 2 - Earth and Space Sciences (Unit 1): Lesson 1	Yes	Shared across units.
Kit	Common	Plastic cups	50	- Physical Sciences: Lesson 1, 2, 3 - Earth and Space Sciences (Unit 1): Lesson 5 - Earth and Space Sciences (Unit 2): Lesson 3	No	Shared across units.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Common	Plastic spoons	100	- Physical Sciences: Lesson 1, 2, 3 - Earth and Space Sciences (Unit 2): Lesson 3	No	Shared across units.
Kit	Common	Push pins	1 box	- Physical Sciences: Lesson 2 - Earth and Space Sciences (Unit 1): Lesson 4	Yes	Shared across units.
Kit	Common	Scissors	1	Life Sciences: For teacher use	Yes	Shared across units.
Kit	Common	Ball of string	2	- Life Sciences: Lesson 4, 5 - Earth and Space Sciences (Unit 1): Lesson 1 - Engineering Design: Lesson 3	No	Shared across units.
Kit	Earth and Space Sciences (Unit 1)	Beach ball	2	Earth and Space Sciences L1	Yes	The 'sun' part of the model. If you are creating extra groups use recess balls to supplement.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Earth and Space Sciences (Unit 1)	Bead strings	3	• Earth and Space Sciences L5	Yes	Station 2 - Bead Station. Coil each bead necklace around the inside of each pitcher at the Bead Station.
Kit	Earth and Space Sciences (Unit 1)	Black Paper	10	• Earth and Space Sciences L4	No	Tape to a wall or desk to give a dark background to shine the constellation onto, and/or create a funnel to block light.
Kit	Earth and Space Sciences (Unit 1)	Piece of chalk	24	• Earth and Space Sciences L3	No	Different colors are helpful, but not essential.
Kit	Earth and Space Sciences (Unit 1)	Flashlight	10	• Earth and Space Sciences L2 • Earth and Space Sciences L3 • Earth and Space Sciences L4	Yes	
Kit	Earth and Space Sciences (Unit 1)	Glass marbles	2	• Earth and Space Sciences L1	Yes	The 'Earth' part of the model.
Kit	Earth and Space Sciences (Unit 1)	Graph paper	1 pad	• Earth and Space Sciences L3	No	
Kit	Earth and Space Sciences (Unit 1)	Mirror	3	• Earth and Space Sciences L5	Yes	Station 3 - Rain on a mirror.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Earth and Space Sciences (Unit 1)	Paper plate	10	Earth and Space Sciences L4	No	Students glue their constellation to the plate for stability.
Kit	Earth and Space Sciences (Unit 1)	Sand timer	3	Earth and Space Sciences L5	Yes	Station 1 - Timer.
Kit	Earth and Space Sciences (Unit 1)	Sticky notes	30	Earth and Space Sciences L1	No	
Kit	Earth and Space Sciences (Unit 1)	Wooden block	30	Earth and Space Sciences L3	Yes	
Kit	Earth and Space Sciences (Unit 2)	Blue food coloring	1 bottle	Earth and Space Sciences L2	No	To color the water in the bag.
Kit	Earth and Space Sciences (Unit 2)	Piece of chalk	15	Earth and Space Sciences L2	No	
Kit	Earth and Space Sciences (Unit 2)	Plastic plates	15	Earth and Space Sciences L3	Yes	Students dissolve salt in water in the cup, then pour onto the plate.
Kit	Earth and Space Sciences (Unit 2)	Sticky notes	1 pack	- Earth and Space Sciences L1 - Earth and Space Sciences L3	No	Save completed sticky notes for activities 5 and 6. Lesson quantities shown: 1 pack; 1 pad. Overview uses the largest single-lesson quantity.
Kit	Earth and Space Sciences (Unit 2)	Table salt	1 bottle	Earth and Space Sciences L3	No	

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Earth and Space Sciences (Unit 2)	Zipper bag	30	Earth and Space Sciences L2	No	
Kit	Engineering Design	Cotton fabric	5 sheets	- Engineering Design L2 - Engineering Design L3	No	Cut each piece of fabric into 4 pieces. Cut each sheet into 3 pieces. Lesson quantities shown: 2 sheets; 5 sheets. Overview uses the largest single-lesson quantity.
Kit	Engineering Design	Linen fabric	2 sheets	Engineering Design L2	No	Cut each piece of fabric into 4 pieces.
Kit	Engineering Design	Nylon fabric	2 sheets	Engineering Design L2	No	Cut each piece of fabric into 4 pieces.
Kit	Engineering Design	Paper straws	8	Engineering Design L1	No	Cut straws, cover them with water in the jar with lid and shake.
Kit	Engineering Design	Plastic straws	8	Engineering Design L1	No	Cut straws, cover them with water in the jar with lid and shake.
Kit	Engineering Design	Rubber band	1 pack	Engineering Design L2	Yes	
Kit	Engineering Design	Tealights	30	Engineering Design L3	No	Student can pull tealight out by wick and use to rub wax onto fabric

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Life Sciences	Paper towels	1 roll	Life Sciences L2	No	Use enough to wrap around the plant's roots and stand upright in the pot.
Kit	Life Sciences	Plastic jar with lid	1	Life Sciences L3	No	Keep the lid closed after the experiment ends and dispose. Do not seal with a lid while the rotting process occurs.
Kit	Life Sciences	Sticky notes	2 packs	- Life Sciences L1 - Life Sciences L5	No	
Kit	Physical Sciences	Aluminum tray	5	Physical Sciences L3	Yes	To catch overflow from the vinegar-baking soda cup
Kit	Physical Sciences	Baking soda	6 tsps	- Physical Sciences L2 - Physical Sciences L3 - Physical Sciences L4	No	Station 1: Powder B. Place 3 cups with a spoonful of Baking soda, labeled 'Powder B' at each of Station 1. Each group will use 1 cup when completing the activity. Save the remaining baking soda for Lessons 3 and 4. Also used in Lesson 2 and 4 Baking soda used in Lessons 2 and 3. Lesson quantities shown: 6 tsps; 1 box; 1 spoonful. Overview uses the largest single-lesson quantity.
Kit	Physical Sciences	Bar magnet	6	Physical Sciences L2	Yes	Station 2.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Physical Sciences	Coffee cup with warm water	6	Physical Sciences L2	No	Station 3. Takeout coffee cups are provided. You may choose to use a ceramic cup. Water should be steaming, but not boiling, and only be handled by the teacher.
Kit	Physical Sciences	Digital scale	1	Physical Sciences L4	Yes	Make sure the display shows '0.0' before placing objects on it.
Kit	Physical Sciences	Flour	6 tsps	Physical Sciences L2	No	Station 1: Powder A. Place 3 cups with a spoonful of Flour, labeled 'Powder A' at each of Station 1. Each group will use 1 cup when completing the activity.
Kit	Physical Sciences	Hand lens	15	Physical Sciences L1	Yes	
Kit	Physical Sciences	Metal teaspoon	6	Physical Sciences L2	Yes	Station 3.
Kit	Physical Sciences	Paper clip	6	Physical Sciences L2	No	Station 2.
Kit	Physical Sciences	Plastic bottle cap	6	Physical Sciences L2	No	Station 2.
Kit	Physical Sciences	Rocks	6	Physical Sciences L2	Yes	Station 2.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Physical Sciences	Sticky notes	1 pack	Physical Sciences L1	No	
Kit	Physical Sciences	Sugar cubes	15 cubes	- Physical Sciences L1 - Physical Sciences L4	No	Lesson quantities shown: 15 cubes; 3. Overview uses the largest single-lesson quantity.
Kit	Physical Sciences	Vinegar	500 ml	- Physical Sciences L3 - Physical Sciences L4	No	Groups will need 100mL each. Also used in Lesson 4. Pour into plastic bottle before setting up experiment. Also used in Lesson 3. Lesson quantities shown: 500 ml; 100 ml. Overview uses the largest single-lesson quantity.
Teacher	Earth and Space Sciences	1 Liter bottle	15	Earth and Space Sciences L3	No	Any recycled bottle, but must be one liter.
Teacher	Earth and Space Sciences	Apple or orange	10	Earth and Space Sciences L2	No	Can use other fruit or everyday spherical objects.
Teacher	Earth and Space Sciences	Clipboard	5	Earth and Space Sciences L3	No	A hardcover book to lean on is a good alternative.
Teacher	Earth and Space Sciences	Clock	1	Earth and Space Sciences L3	No	A classroom clock is fine. A device where an hourly alarm can be set is helpful.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Earth and Space Sciences	Colored markers	60	Earth and Space Sciences L2	No	
Teacher	Earth and Space Sciences	Colored pencils	150	Earth and Space Sciences L3	No	Pencils must be 5 different colors.
Teacher	Earth and Space Sciences	Earth globe	2	Earth and Space Sciences L2	No	A fun way to incorporate the rotation of the Earth. More chairs can be used if available or students can simply swivel their bodies around.
Teacher	Earth and Space Sciences	Flashlight Constellations sheet	10	Earth and Space Sciences L4	No	Available on the lesson page. Make one copy for each group. Print a smaller version to fit the end of the flashlight.
Teacher	Earth and Space Sciences	Graph paper	30	Earth and Space Sciences L3	No	Can be printed from the lesson page.
Teacher	Earth and Space Sciences	Large measuring tape or measuring wheel	See guide	Earth and Space Sciences L1	No	An alternative to the string for measuring 110m.
Teacher	Earth and Space Sciences	Piece of paper	30	- Earth and Space Sciences L3 - Earth and Space Sciences L5	No	Station 4 - Paper planes. Lesson quantities shown: 10; 30. Overview uses the largest single-lesson quantity.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Earth and Space Sciences	Pencil	30	• Earth and Space Sciences L3	No	
Teacher	Earth and Space Sciences	Ruler	30	• Earth and Space Sciences L3	No	
Teacher	Earth and Space Sciences	Spot lamp	5	• Earth and Space Sciences L2	No	To record a short video of the model.
Teacher	Earth and Space Sciences	Swivel chair	1	• Earth and Space Sciences L2	No	An alternative light source to the flashlight. Other options might include a lantern or a clip-on reading light.
Teacher	Engineering Design	Clothing	5	• Engineering Design L2	No	Students' clothes or coats already in the classroom may be used for some examples.
Teacher	Engineering Design	Crayons	30	• Engineering Design L3	No	Students color over top of the candle wax to add interest (and extra waterproofing).
Teacher	Engineering Design	Cup of water	15	• Engineering Design L3	Yes	
Teacher	Engineering Design	Hole punch	1	• Engineering Design L3	No	Fashion the fabric into a bag or accessory.
Teacher	Engineering Design	Newspaper	5	• Engineering Design L3	No	To protect tables from wax. Tablecloths are an alternative.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Engineering Design	Scissors	30	- Engineering Design L1 - Engineering Design L3	No	To cut up straws. Fashion the fabric into a bag or accessory. Lesson quantities shown: 8; 30. Overview uses the largest single-lesson quantity.
Teacher	Life Sciences	Pieces of fruit	1	Life Sciences L3	No	Juicy, high-water content fruits such as strawberries, melon or peaches, work best.
Teacher	Life Sciences	Plants	4	Life Sciences L2	No	Should all be the same species / variety and all approximately the same size. Herbs (such as basil) or flowers (such as marigolds) work well.
Teacher	Life Sciences	Plastic bottle with lid	1	Life Sciences L2	No	Any cleaned and empty recycled bottle. Needs to fit snugly over the pot after the bottom is cut off, with some vertical room for plant growth.
Teacher	Life Sciences	Rainforest cards	30	Life Sciences L4	No	These cards are embedded on the lesson page and will need to be printed and cut beforehand. Sticky notes can be used as an alternative.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Multiple disciplines	Big piece of paper	8	• Life Sciences L3 • Life Sciences L4 • Earth and Space Sciences L4	No	
Teacher	Multiple disciplines	Camera, or a device with a camera	15	• Physical Sciences L2 • Earth and Space Sciences L2	No	Station 3. Optional to record the station. Optional for students to record slow motion video. To photograph the puddle over time. Lesson quantities shown: 2; 10; 15. Overview uses the largest single-lesson quantity.
Teacher	Multiple disciplines	Markers	32	• Life Sciences L3 • Life Sciences L4 • Earth and Space Sciences L4	No	
Teacher	Multiple disciplines	Measuring cup	15	• Physical Sciences L3 • Earth and Space Sciences L3	No	Groups will need to measure out 100mL of water and 100mL of vinegar. Use measuring cups or simply mark a line on several plastic cups for students to fill to. Students will need to accurately measure volumes of water. Lesson quantities shown: 10; 15. Overview uses the largest single-lesson quantity.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Multiple disciplines	Research materials	30	• Life Sciences L4 • Earth and Space Sciences L1 • Earth and Space Sciences L4	No	Internet-enabled devices, relevant books and magazines. Internet-enabled devices, selected websites, books and magazines. Lesson quantities shown: See guide; 30. Overview uses the largest single-lesson quantity.
Teacher	Multiple disciplines	Water	500 ml	• Life Sciences L2 • Physical Sciences L3 • Earth and Space Sciences L5 • Earth and Space Sciences L2 • Engineering Design L1 • Engineering Design L2	No	Use the same amount of water for Plant 1 & 2. Can use pitchers from Common for students to pour from. Station 3 - Rain on a mirror. Enough to fill each jar. Lesson quantities shown: 1 cup; 500 ml; 3 cups; 1 qt; 1 pitcher; 8 cups. Overview uses the largest single-lesson quantity.
Teacher	Physical Sciences	Aluminum can	6	• Physical Sciences L2	No	Station 2.
Teacher	Physical Sciences	Butter	3	• Physical Sciences L2	No	Station 3. Only a small amount is needed at the end of each spoon to stick a bead to each spoon.
Teacher	Physical Sciences	Coin	6	• Physical Sciences L2	No	Station 2.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Physical Sciences	Ice cube	1	Physical Sciences L4	No	
Teacher	Physical Sciences	Plastic bottle	10	- Physical Sciences L1 - Physical Sciences L4	No	An 8oz or 16oz recycled bottle, or similar so the balloon can inflate. A large plastic bottle will be harder to squeeze. Lesson quantities shown: 10; 1. Overview uses the largest single-lesson quantity.
Teacher	Physical Sciences	Timer, or device with timer	2	Physical Sciences L2	No	Station 3. To time how long it takes the butter to melt.
Teacher	Physical Sciences	Warm water	2 pitchers	- Physical Sciences L1 - Physical Sciences L4	No	Sugar dissolves faster in warm (not hot) water. Can use pitchers from Common to pour water or prefill plastic cups. One cup in each of the jars. Lesson quantities shown: 2 pitchers; 2. Overview uses the largest single-lesson quantity.