

Grade 2 Complete Materials Overview

Combined kit-provided and teacher-provided materials for one class of up to 30 students. 57 kit entries and 25 teacher entries. Repeated materials are consolidated to the largest single-lesson quantity unless the guide states an exact shared-kit quantity.

Source: ISK-KitMaterials-Grade2-FINAL-digital.pdf

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Common	Aluminum foil	1 roll	- Physical Sciences: Lesson 3 - Engineering Design: Lesson 1	No	Shared across units.
Kit	Common	Clear plastic bowl	12	- Physical Sciences: Lesson 1 - Engineering Design: Lesson 2, 4	Yes	Shared across units.
Kit	Common	Connecting cubes	300	- Physical Sciences: Lesson 4 - Earth and Space Sciences: Lesson 4	Yes	Shared across units.
Kit	Common	Craft sticks	100	- Physical Sciences: Lesson 3 - Earth and Space Sciences: Lesson 4	No	Shared across units.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Common	Gluesticks	6	• Across units	No	Shared across units.
Kit	Common	Liquid soap	1	• Physical Sciences: Lesson 1 • Engineering Design: Lesson 4	No	Shared across units.
Kit	Common	Roll of masking tape	2	• Life Sciences: Lesson 2 • Engineering Design: Lesson 1	No	Shared across units.
Kit	Common	Pack of cotton balls	1	• Life Sciences: Lesson 2 • Physical Sciences: Lesson 1	No	Shared across units.
Kit	Common	Roll of paper towel	1	• Life Sciences: Lesson 1 • Physical Sciences: Lesson 1, 3	No	Shared across units.
Kit	Common	Permanent marker	4	• Life Sciences: Lesson 1, 3	No	Shared across units.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Common	Plastic spoons	10	• Life Sciences: Lesson 3 • Earth and Space Sciences: Lesson 2 • Engineering Design: Lesson 4	No	Shared across units.
Kit	Common	Plastic tray	6	• Physical Sciences: Lesson 5 • Earth and Space Sciences: Lesson 2, 3, 4, 5	Yes	Shared across units.
Kit	Common	Sand	1 bag	• Physical Sciences: Lesson 1 • Earth and Space Sciences: Lesson 4, 5	No	Shared across units.
Kit	Common	Scissors	1	• Life Sciences: For teacher use	Yes	Shared across units.
Kit	Common	Ball of string	1	• Across units	No	Shared across units.
Kit	Earth and Space Sciences	Baking soda	1 box	• Earth and Space Sciences L2	No	Station 3: Volcano. Each group puts a spoonful of baking soda into a cup.
Kit	Earth and Space Sciences	Deck of cards	2	• Earth and Space Sciences L2	Yes	Station 1: Earthquake

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Earth and Space Sciences	Inflatable globe	1	Earth and Space Sciences L3	Yes	Inflate the globe prior to the lesson.
Kit	Earth and Space Sciences	Jar with lid	10	Earth and Space Sciences L1	Yes	
Kit	Earth and Space Sciences	Modeling clay	3 packs	Earth and Space Sciences L5	No	Cut each pack in half and divide among the groups.
Kit	Earth and Space Sciences	Paper cup	15	Earth and Space Sciences L2	No	You will need 6 paper cups at each Volcano station. Each group will use 1 for the baking soda, 1 for the vinegar. You will need 3 paper cups at each Flood station (1 per group).
Kit	Earth and Space Sciences	Small rocks	1 bag	Earth and Space Sciences L4	No	Use enough rocks to build a barrier across the width of one container.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Earth and Space Sciences	Soil	3 cups	- Earth and Space Sciences L2 - Earth and Space Sciences L4	No	Station 2: Flood. Provide each group with enough soil that they can make a small pile on one side of the tray. When finished, lay the soil out to dry. Soil used again in Lesson 4. Pile one cup of soil into one side of each plastic tray. When finished, lay the soil out to dry. Soil used again in Lesson 2. Lesson quantities shown: 2 bags; 3 cups. Overview uses the largest single-lesson quantity.
Kit	Earth and Space Sciences	Sticky notes	1 pack	Earth and Space Sciences L3	No	A few extra will be left for those students who need one more.
Kit	Earth and Space Sciences	Sugar cubes	60	Earth and Space Sciences L1	No	Students should place a sufficient number of sugar cubes in their jar so that they collide with each other when shaken.
Kit	Earth and Space Sciences	Vinegar	1 bottle	Earth and Space Sciences L2	No	Station 3: Volcano. A new ½ paper cup of vinegar will need to be available for each group that arrives at the station.
Kit	Engineering Design	Piece of cotton cloth	5	Engineering Design L4	No	Teachers need to cut the cloth sheet into 5 pieces.
Kit	Engineering Design	Deli container with lid	5	Engineering Design L1	No	This will represent the cooler. A lunchbox can also be used.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Engineering Design	Sheet of foam	5	• Engineering Design L1	No	Students will need to cut the foam to fit the inside base, sides and lid of the plastic container.
Kit	Engineering Design	Packet of ketchup	5	• Engineering Design L4	No	
Kit	Engineering Design	Packet of mustard	5	• Engineering Design L4	No	Soy sauce can also be used.
Kit	Engineering Design	Paint	1 bottle	• Engineering Design L4	No	Chocolate sauce can also be used.
Kit	Engineering Design	Resealable bags	5	• Engineering Design L1	No	
Kit	Life Sciences	Baking powder	1 box	• Life Sciences L3	No	White flour could also be used.
Kit	Life Sciences	Balloon	15	• Life Sciences L3	No	Students may find blowing up a balloon challenging; consider blowing them up beforehand.
Kit	Life Sciences	Cocoa powder	1 box	• Life Sciences L3	No	Glitter could also be used.
Kit	Life Sciences	Piece of felt	10	• Life Sciences L2	No	Can be used to model animal fur or hair.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Life Sciences	Hand lens	15	• Life Sciences L4	Yes	You may need to show students how to focus by slowly moving the hand lens towards or away from their eye.
Kit	Life Sciences	Hook and loop dots	60	• Life Sciences L2	No	Can be used to model how seeds stick to animal fur.
Kit	Life Sciences	Lima bean seeds	1 packet	• Life Sciences L1	No	Lima bean seeds are supplied due to their quick germination time. You might also consider mustard seeds or marigold seeds.
Kit	Life Sciences	Paper plate	30	• Life Sciences L3	No	To hold the powders.
Kit	Life Sciences	Pom poms	80	• Life Sciences L2	No	Can be used to model seeds.
Kit	Life Sciences	Zipper bag	30	• Life Sciences L1	No	
Kit	Physical Sciences	Block	1	• Physical Sciences L5	Yes	Reuse Wooden blocks from Lesson 3 or Connecting Cubes in Common Kit Bin.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Physical Sciences	Cotton cloth	10 pieces	Physical Sciences L3	No	Can be cut into smaller pieces for groups. Will be reused in pieces for Activity 4. Cut into smaller pieces for groups. Can be reused from Activity 3. Use the second cloth from the kit bag. You may cut into smaller pieces for groups. Lesson quantities shown: 1; 10 pieces. Overview uses the largest single-lesson quantity.
Kit	Physical Sciences	Modeling clay	1 pack	Physical Sciences L3	No	Share pack among groups.
Kit	Physical Sciences	Origami Paper	30	Physical Sciences L3	No	
Kit	Physical Sciences	Paper clips	1 box	Earth and Space Sciences L1	No	
Kit	Physical Sciences	Paper cups	10	Physical Sciences L3	No	Prefill cups of water for each group.
Kit	Physical Sciences	Paper plates	3	Physical Sciences L2	No	To place under ice and butter.
Kit	Physical Sciences	Pasta (elbow)	1 box	Earth and Space Sciences L1	No	
Kit	Physical Sciences	Plastic bag	10	Physical Sciences L3	No	

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Kit	Physical Sciences	Plastic plates	10	Physical Sciences L3	No	To hold the 'spill'.
Kit	Physical Sciences	Salt	1 cup	Earth and Space Sciences L1	No	
Kit	Physical Sciences	Sand paper	2	Physical Sciences L3	No	May be cut into smaller pieces for groups.
Kit	Physical Sciences	Sponge cube	20	Physical Sciences L3	No	Sponge cubes are small and will only soak up a small amount of water. Reused in Activity 7. Also used in Activity 4.
Kit	Physical Sciences	Wooden block	6	- Physical Sciences L2 - Physical Sciences L3	Yes	Lesson quantities shown: 1; 6. Overview uses the largest single-lesson quantity.
Teacher	Earth and Space Sciences	Bucket	1	Earth and Space Sciences L1	No	A plastic bowl from the Common Kit Bag will suffice if not available.
Teacher	Earth and Space Sciences	Colored pencils	20	Earth and Space Sciences L1	No	Optional additional material.
Teacher	Earth and Space Sciences	Hair dryer	1	Earth and Space Sciences L4	No	
Teacher	Earth and Space Sciences	Jug of water	1	Earth and Space Sciences L4	No	

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Earth and Space Sciences	Milk	½ pint	• Earth and Space Sciences L1	No	Optional additional material.
Teacher	Earth and Space Sciences	Plastic cups	10	• Earth and Space Sciences L1	No	For pouring samples of materials.
Teacher	Engineering Design	Apple slices	12	• Engineering Design L2	No	
Teacher	Engineering Design	Container of water	5	• Engineering Design L4	No	Small bucket, beach pail, plastic shoe box, or similar can be used.
Teacher	Engineering Design	Honey	4 tbsp	• Engineering Design L2	No	Honey water: add 4 tablespoons of honey to 2 cups of warm water, provides 1/2 cup per group. Honey water needs to be prepared ahead of time and can be used room temp or chilled.
Teacher	Engineering Design	Scissors	10	• Engineering Design L1	No	May be needed to cut foam or foil to fit the container.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Multiple disciplines	Ice cubes	50	• Earth and Space Sciences L1 • Physical Sciences L2 • Physical Sciences L5 • Earth and Space Sciences L3 • Engineering Design L1	No	Optional additional material. Place ice cubes into a zipper bag, and then the zipper bag into the 'cooler'. Lesson quantities shown: 1 tray; 4; 30; 50. Overview uses the largest single-lesson quantity.
Teacher	Multiple disciplines	Water	6 cups	• Life Sciences L1 • Earth and Space Sciences L1 • Physical Sciences L3 • Earth and Space Sciences L2 • Engineering Design L2	No	Only a small amount of water goes into each bag, enough to just wet the paper towel. Optional additional material. To fill the cups. Station 2: Flood. Each group will use 1 cup of water to pour over soil. Use half of the water for the second bowl (water), and the other half to make honey water for the third bowl (honey water). Lesson quantities shown: 2 cups; 1 jug; 2 1/2 cups; 6 cups; 4 cups. Overview uses the largest single-lesson quantity.
Teacher	Physical Sciences	Additional building cubes	300	• Physical Sciences L4	No	You may wish to substitute the connecting cubes for other types of construction blocks for Activity 7.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Physical Sciences	Apple	1	• Physical Sciences L5	No	Optional object for experiment.
Teacher	Physical Sciences	Bottle of water	1	• Physical Sciences L5	No	Optional object for experiment.
Teacher	Physical Sciences	Butter	4 oz	• Physical Sciences L2	No	
Teacher	Physical Sciences	Camera	1	• Physical Sciences L4	No	Students can take a picture or draw their tower.
Teacher	Physical Sciences	Chocolate	1	• Physical Sciences L5	No	Optional object for experiment.
Teacher	Physical Sciences	Crayons	30	• Physical Sciences L3	No	
Teacher	Physical Sciences	Egg	1	• Physical Sciences L5	No	Optional object for experiment.
Teacher	Physical Sciences	Heat source	1	• Physical Sciences L5	No	A microwave, or pan and hot plate.
Teacher	Physical Sciences	Juice	1	• Physical Sciences L5	No	Optional object for experiment.
Teacher	Physical Sciences	Lamp/ heat source	1	• Physical Sciences L2	No	A lamp with a halogen or incandescent bulb will work best. Direct sunlight is also an option.

PROVIDER	KIT BAG	MATERIAL	QUANTITY	USED IN	REUSABLE	NOTES
Teacher	Physical Sciences	Paper	10	Physical Sciences L3	No	Optional material to test absorbency.
Teacher	Physical Sciences	Soft Toy	1	Physical Sciences L5	No	Optional object for experiment.