Grade 5 Teacher-Sourced Kit Items

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Module 1: Matter Mysteries Hotline

Items	Driving Question	Lesson
Trays	3-D Team Challenge	3
	3-D Team Challenge	4
	1	1
	1	3
	1	4
	1	6
	2	1
	2	2
	3	4
	3	6
	4	1
	5	2
	5	3
	6	2
Set of talking chips **(Optional)**	3-D Team Challenge	5
Rulers	1	1
	1	4
	1	6
Desk lamps with incandescent bulbs, 57W	1	3
	1	4
Wide rubber band	1	3
Paper clip	1	3
Pencil with metal band around the top	1	3
Eraser	1	3
Reusable heating gel pads **(Optional)**	1	3
1 gallon plastic bucket, three-quarters full with water	1	6
Frying pan	2	1
	2	4
3 kg salt	2	1
	2	2
	4	1
300 g sugar	2	1
	2	2
	2	3
	2	4

Module 1: Matter Mysteries Hotline

Items	Driving Question	Lesson
200 g cornstarch	2	1
	2	2
	3	6
	4	1
250 g baking soda	2	1
	2	2
	2	3
	2	4
	3	1
	3	4
Document camera **(Optional)**	2	1
	2	4
400 mL vinegar	2	2
	2	3
	2	4
Water	2	2
	2	3
	2	4
	3	3
	3	5
	3	8
	4	1
	5	2
2 plastic containers	2	2
Paper towels	2	2
	4	1
	4	2
5 kg flour	3	1
	4	1
10 g cinnamon	3	1
40 mL coconut oil	3	1
60 mL maple syrup	3	1
20 mL vanilla extract	3	1
4 bananas	3	1
Cooking spray	3	1

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Items	Driving Question	Lesson
Index cards or sticky notes	3	1
Microwave	3	1
	4	1
Bowls **(Optional)**	3	1
1 microwaveable mug (for each team)	3	1
	4	1
1 fork (for each team)	3	1
Colored pencils (red and blue)	3	2
2 8–12oz plastic bottles with lids (for each student)	3	3
	4	2
Newspaper	3	3
12 L vegetable oil	3	3
	4	1
	5	2
8 bottles of food coloring	3	3
1 red cabbage	3	8
Pot	3	8
Hot plate	3	8
4 kg cream of tartar	4	1
1 cookie stamp (for each team)	4	2
600 mL molasses	5	2
Desk fan **(Optional)**	5	2
5 snap cubes or building blocks (for each pair)	5	2
1 straight pin	5	3
Clear tape	5	3
	6	2
White glue	6	2
Scissors	6	2

Module 2: Yellowstone: Uncovered

Items	Driving Question	Lesson
5 buckets or trash bags	1	2
	2	7
Newspaper	1	2
	2	7
	3	2
Trays	1	2
	2	7
Paper towels	1	2
	5	1
Tape	1	2
	5	1
Scissors	1	2
	2	7
	5	3
Rulers	1	2
Index cards	2	3
Double-sided tape	2	3
	2	4
	2	5
	4	3
	5	3
Computer or tablet (for each pair)	2	3
	4	3
Wildlife reference books **(Optional)**	2	3
2 L plastic bottles (2 for each team)	2	7
Soil from the schoolyard **(Optional)**	2	7
Plant cuttings, seedlings, or seeds	2	7
Leaf litter	2	7
Small stones or pebbles (for each team)	2	7
1 spoon (for each team)	2	7
	5	1
Worms or pillbugs **(Optional)**	2	7
Document camera **(Optional)**	3	1
	5	4
Brown paper bag **(Optional)**	3	2

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Module 2: Yellowstone: Uncovered

Items	Driving Question	Lesson
Sticky notes or strips of paper	3	4
	4	4
	5	4
1 clipboard (for each student) **(Optional)**	4	1
	5	1
Fruit	5	1
Cottage cheese	5	1
Small cup or container	5	1
Cardboard **(Optional)**	5	1
Cups or jars **(Optional)**	5	1
Trowel **(Optional)**	5	1
Glue	5	3

Module 3: H2O Response Team

Items	Driving Question	Lesson
Calculator	1	1
Water	1	4
	4	1
	4	3
	4	5
	5	Benchmark Assessment
Trays	1	4
	2	1
	4	1
	4	3
	4	5
	4	6
Newspaper	2	1
	3	5
Paper towels	2	1
	3	4
3 cups, bowls, or small containers (for each team)	2	1
Stones or pebbles (for each team)	2	1
	4	5
Objects to represent buildings **(Optional)**	2	1
4 bottles of soy sauce	2	1
Salt	2	1
	4	1
	4	5
Paper	2	1
Colored pencils	2	1
Books on water conservation and/or launching environmental campaigns at school **(Optional)**	2	2
	2	3
	2	4
Computer or tablet (for each pair)	2	2
	2	3
	2	4
	5	2
	5	3
1 clear heat-resistant jar with lid	3	2

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Module 3: H2O Response Team

Items	Driving Question	Lesson
Ice cubes or crushed ice	3	2
Hot water	3	2
Hair spray	3	2
Document camera **(Optional)**	3	2
Dish soap	5	Benchmark Assessment
Paper clips	3	3
	3	5
Location markers (e.g., cardboard, cones, or plant markers)	3	4
Metal spoons (for each student)	3	4
White paper	3	4
Rags or a mop	3	5
Sticky notes **(Optional)**	3	7
1 tablespoon	4	1
Pitcher (if no kitchen sink) **(Optional)**	4	3
	4	5
Rock salt	4	3
Poster paper	4	4
Rulers	4	5
Audio/video recorder (e.g. phone, tablet, etc.)		
Poster materials	5	4
Napkins	5	Benchmark Assessment
Pencils	5	Benchmark Assessment
Twigs	5	Benchmark Assessment
Small pieces of plastic and other trash	5	Benchmark Assessment
Food scraps (not meat)	5	Benchmark Assessment
Cooking oil	5	Benchmark Assessment
Spoon	5	Benchmark Assessment

Module 4: Galatic Guidebook

Items	Driving Question	Lesson
Camera (phone, tablet, etc.) **(Optional)**	1	1
	1	2
	1	4
	2	1
	2	2
	2	3
	3	5
	3	7
	5	3
	5	5
	5	8
Computer or tablet (for each pair)	1	3
	1	4
	3	2
	5	1
	5	6
	5	7
Painter's tape **(Optional)**	2	1
	2	3
Permanent marker **(Optional)**	2	1
	2	3
Scissors	2	2
	3	4
Ballpoint pen (for each team)	2	2
Rulers	2	2
Trays	2	2
Additional meter sticks **(Optional)**	2	2
Colored pencils	3	2
	3	7
Shoebox or similar box	3	4
Tape	3	4
Pushpin	3	4
Pencil	3	5
Sticky dots	3	5
4 or 5 objects to be safely dropped (e.g., erasers, markers, balls, etc., for each pair)	4	1

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Module 4: Galatic Guidebook

Items	Driving Question	Lesson
2 pieces of paper (for each pair)	4	1
Texts for student research	5	6
	5	7