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Hands-On Lab Kits: The Basics







GRADE 4

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Grade 4

The Basics Kit

These items may be needed in multiple modules.

	25 ft of electrical wire 1 ☐		DC motor 15 ☐		DC voltmeter 1 ☐
	Electrical wire with alligator clip 6 ☐		Alligator clip 10 ☐		500 mL measuring beaker 8 ☐
	Magnifying glass 16 ☐		Tuning fork 8 ☐		Plastic spring toy 8 ☐

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Kit Items by Fast Track Lesson

Module	2*						3*						5*						
Driving Question	1	2					3		4				1		4	5		6	
Fast Track Lessons	2	2	3	4	5	8	1	2	1	2	4	5	2	3	2	3	4	2	3
25 ft of electrical wire		✔	✔																
15 DC motors			✔	✔															
1 DC voltmeter					✔	✔													
6 electrical wires with alligator clips					✔	✔													
10 alligator clips						✔													
8 500 mL measuring beakers							✔			✔	✔								
16 magnifying glasses													✔					✔	
8 tuning forks																✔			
8 plastic spring toys																			

*Modules:
1 Egg Racers
2 Sparks Energy, Inc.
3 Time-Traveling Tour Guides
4 Earthquake Engineering
5 Super Survivors

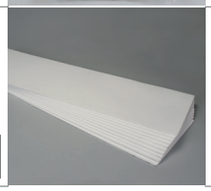
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Grade 4 Module 1: Egg Racers

The Basics Kit

	Table tennis balls 30 ☐		Cardboard wheels, pack of 32 1 ☐		Tambourine 2 ☐
	Light-up yo-yo 2 ☐		Foam board 4 ☐		

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Grade 4 Module 1: Egg Racers

Kit Items by Fast Track Lesson

Driving Question	1		2			3		4		
Fast Track Lessons	1	3	1	2	3	1	2	1	2	3
1 pack of cardboard wheels	✔									
30 table tennis balls			✔			✔		✔	✔	
2 tambourines		✔	✔							
2 light-up yo-yos		✔								
4 foam boards		✔	✔				✔	✔		

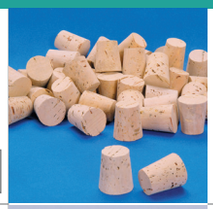
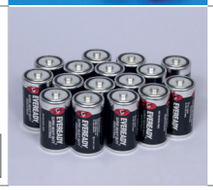
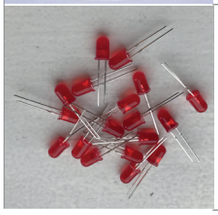
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Grade 4 Module 2: Sparks Energy , Inc.

The Basics Kit

	Large resealable plastic bag 1 ☐		1.5 V mini light bulbs, pack of 10 2 ☐		Cork 25 ☐
	Plastic container 16 ☐		50 mL measuring beaker 8 ☐		D-cell batteries, pack of 16 1 ☐
	Pack of 20 red LEDs 1 ☐				

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Grade 4 Module 2: Sparks Energy , Inc.

Kit Items by Fast Track Lesson

Driving Question	1	2				
Fast Track Lessons	2	2	3	4	5	6
1 resealable plastic bag	✔					
20 1.5 V mini light bulbs		✔	✔			
25 corks				✔		
16 plastic containers	✔					
8 50 mL measuring beakers	✔					
16 D-cell batteries		✔	✔			
Pack of 20 LEDs						✔

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Grade 4 Module 3: Time-Traveling Tour Guides

The Basics Kit

	Resealable plastic bags, 6×9 in., pack of 16 3 ☐		Black sand, 1 lb bags 6 ☐		Red sand, 1 lb bags 6 ☐
	Green sand, 1 lb bags 6 ☐		Sand, 5 lb bag 12 ☐		Modeling clay, 1 lb pack 10 ☐
	Gravel, 5 lb bag 1 ☐		Pieces of mesh, pack of 8 1 ☐		Wooden sticks, pack of 500 1 ☐
	Resealable plastic bags, 9×12 in., pack of 6 2 ☐				

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Grade 4 Module 3: Time-Traveling Tour Guides

Kit Items by Fast Track Lesson

Driving Question	2	3		4			
Fast Track Lessons	1	1	3	1	2	3	4
48 small plastic bags	✔						
6 lb black sand	✔						
6 lb red sand	✔						
6 lb green sand	✔						
10 lb modeling clay				✔	✔	✔	✔
5 lb gravel				✔			
8 pieces of mesh						✔	
1 pack of wooden sticks						✔	
12 large resealable plastic bags							✔
60 lb sand		✔		✔			

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Grade 4 Module 4: Earthquake Engineering

The Basics Kit

	Natural ropes 10 ☐		Sand, 5 lb bag 1 ☐		Modeling clay, 1 lb pack 7 ☐
	Ball of string 1 ☐		Resealable plastic bags, 2×3 in. 32 ☐		Foam sheets, pack of 100 1 ☐
	Cardboard pieces, pack of 30 3 ☐				

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Grade 4 Module 4: Earthquake Engineering

Kit Items by Fast Track Lesson

Driving Question	1	3	4	6	
Fast Track Lessons	2	2	1	1	2
32 resealable plastic bags		✔			✔
5 lb sand		✔			✔
7 lb modeling clay		✔	✔	✔	
1 ball of string		✔	✔	✔	
90 cardboard pieces			✔	✔	
100 foam sheets			✔	✔	
10 natural ropes	✔				

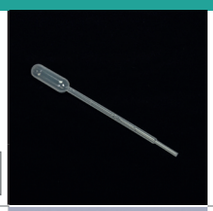
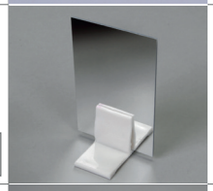
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Grade 4 Module 5: Super Survivors

The Basics Kit

	Plastic tweezers 1 ☐		Flexible plastic tubes, pack of 15 1 ☐		Pipette 1 ☐
	Modeling clay, 1 lb pack 2 ☐		Nutcracker 1 ☐		Small strainer 1 ☐
	Roll of string 1 ☐		Set of scent jars 3 ☐		Small mirrors, pack of 15 1 ☐
	Sand, 3 lb bag 1 ☐		Corks, pack of 100 1 ☐		Scalpel 1 ☐

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Grade 4 Module 5: Super Survivors

Kit Items by Fast Track Lesson

Driving Question	1			2	3		5	6
Fast Track Lessons	1	2	4	1	1	2	4	6
1 roll of string			✔					
1 bag of sand			✔					
15 small mirrors						✔		
1 scalpel		✔						
1 nutcracker			✔					
1 pair of plastic tweezers			✔					
1 small strainer			✔					
1 pipette			✔					
1 pack of corks			✔					
2 lb modeling clay			✔			✔	✔	
3 sets of scent jars				✔				
15 flexible plastic tubes					✔			

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