Focus Questions
Grade Four

Circuits and Pathways  (Insights)

Lesson 1: What Do We Already Know?
What do you think you know about electricity?

Lesson 2: Circuits and Motors
What can you do to make a motor spin?

Lesson 3: Lighting the Bulb
How many ways can you find to light a bulb?

Lesson 4: What's Inside the Bulb
Where does the electricity flow inside a bulb?

Lesson 5: Conductors and Nonconductors
What materials are conductors and which ones are non-conductors?

Lessons 6 & 7: Predictions #1 and #2

Lesson 8: Series Circuits
What happens when you change a series circuit by adding bulbs?

Lesson 9: Brightness Meters
How can we measure the brightness of bulbs?

Lesson 10: Parallel Circuits
How can you wire a circuit so that removing one bulb does not make the remaining bulb(s) in the circuit go out?

Lesson 11: Switches
How does a switch work? How can you make a switch?

Lesson 12: Electric Resistance
How does changing the wire affect the brightness of a bulb in a circuit? What systematic test can you use?
Circuits and Pathways Questions  (Continued)

Lesson 13: Fuses
Focus question: What does a fuse do in a circuit?

Lesson 14: Hidden Circuits
Focus question: What systematic test can you use to determine which brass fasteners are connected by wire?

Lesson 15: Mystery Boxes
Focus questions: What systematic test can you use to determine which brass fasteners are connected? How can you determine what connects those fasteners?