

ACTIVITY!

Inquire & Investigate



VOCAB LAB



Write down what you think each word means. What root words can you find to help you? What does the context of the word tell you?

economy, engineering, fashion, patent, prototype, synthetic, and textile.

Compare your definitions with those of your friends or classmates. Did you all come up with the same meanings? Turn to the text and glossary if you need help.

THE STEM IN YOUR CLOSET

Have you ever really thought about what kinds of science, engineering, and technology actually go into making your clothes? Now is your chance! The zipper on your jacket was at one time an engineering miracle. The shirt that has built-in protection from the sun's ultraviolet rays is a scientific innovation that helps to keep you healthy. There is a world of science and engineering in your closet. Just open the door.

- **Look at your closet through an inquisitive science and engineering lens.** Keep in mind the topics covered in this book: fabric, color, design, accessories, and shoes.
- **Make a list of the technological or scientific advancements that you notice.** You don't have to explain them all, just notice what are there and record them in your science journal.
- **Choose one advancement you found in your closet and research its history.** Who invented it? Why? How did that invention change the industry? Has anyone invented something that replaces that innovation?

To investigate more, choose one of the inventors or innovators that designed something in your closet. Were they male or female? Were they recognized for their contributions? Were they paid for their invention? Why does it matter?