

Exploring Materials—Graphene

ENCOURAGE CREATIVITY

- Ask participants what **creative inventions** they could design with flexible circuits. Give examples such as using a flexible circuit on shoelaces that light up as you walk or using flexible circuits to create a foldable newspaper that displays the current news.

TELL A STORY

- Graphene is a material that is flexible, nearly transparent, conductive, and 100 times stronger than steel. **What problem in the world could you solve with graphene?** Tell a story of your solution.

MAKE ACTIVITIES OPEN-ENDED WITH NO “RIGHT” ANSWERS

- Encourage visitors to **keep exploring**. Can you short the circuit? What happens when you use an eraser to remove some of the graphene? Can you make the line connecting the circuit longer, shorter, thicker, or thinner?