

# Science Practices

## 1. Asking Questions and Defining Problems

**Engineering** begins with a problem that needs to be solved, such as “How can we reduce the nation’s dependence on fossil fuels?” or “What can be done to reduce a particular disease?” or “How can we improve the fuel efficiency of automobiles?”

## **5. Using Mathematics, Information and Computer Technology, and Computational Thinking**

In **engineering**, mathematical and computational representations of established relationships and principles are an integral part of the design process.

## **8. Obtaining, Evaluating, and Communicating Information**

**Engineering** cannot produce new or improved technologies if the advantages of their designs are not communicated clearly and persuasively.