

Which Science and Engineering Practices did you use today?

Scientists and engineers use the Science and Engineering Practices every day as part of their jobs. They're also things that *you* do every day.



Asking Questions and Defining Problems

Science is all about asking questions. Engineering is all about defining problems. What do you wonder? What do you want to find out? What problem are you trying to solve?



Developing and Using Models

Models can help us get evidence about things that are hard to observe. They can help us explain ideas. What does the model show? What does it not show?



Planning and Carrying Out Investigations

Investigations help us gather evidence about a question. What is your investigation plan? What will you observe? What do you predict will happen?



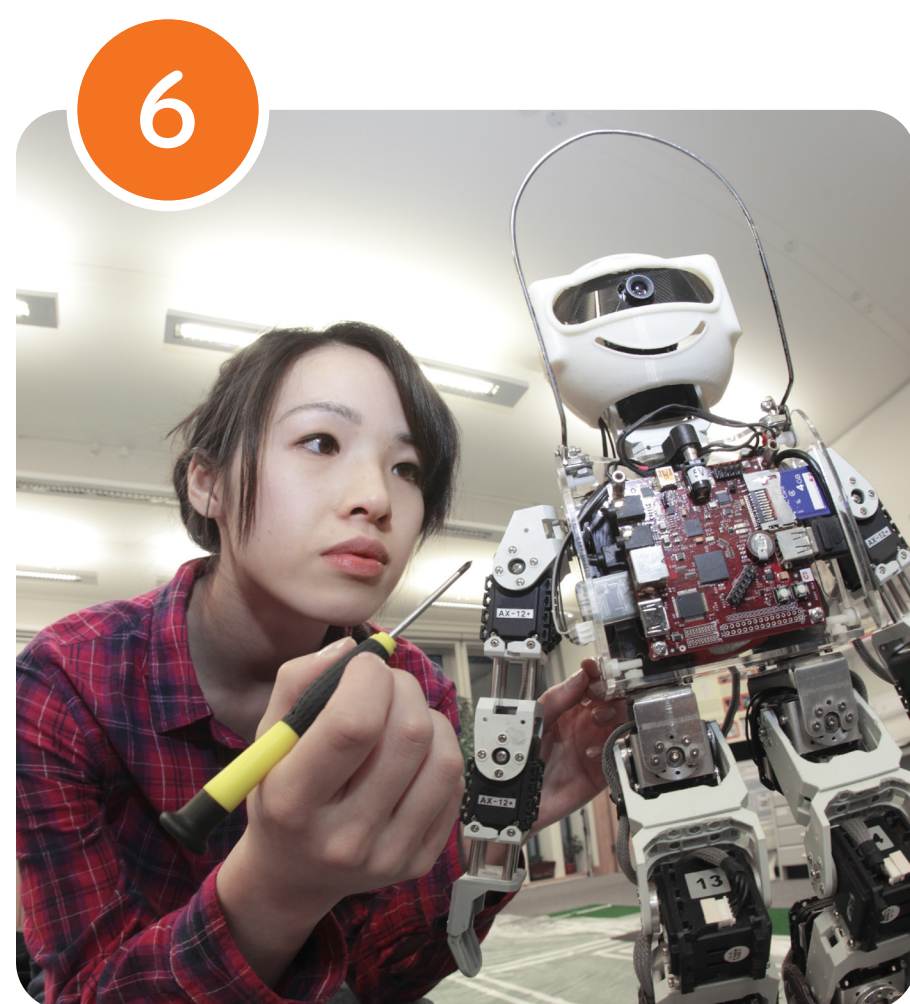
Analyzing and Interpreting Data

Making sense of data can help us answer questions and compare solutions. How can you organize the data? What patterns do you notice? What does the data show?



Using Mathematics and Computational Thinking

Mathematics and computational thinking are tools that help us collect and analyze data, model relationships, or design solutions. What can you measure and how? Can you find or describe a pattern?



Constructing Explanations and Designing Solutions

The goal of science is to explain how and why things happen. The goal of engineering is to design solutions to problems. What can you explain? What did you design?



Engaging in Argument from Evidence

Discussing our ideas using evidence helps us figure out the best explanation or decide on the best design. What claim does the evidence support? Why do you think that?



Obtaining, Evaluating, and Communicating Information

Scientists and engineers share ideas and information. What did you find out from this source? How much do you trust the source? How will you communicate your own ideas clearly?