
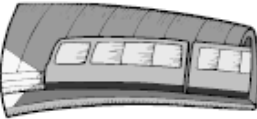














Appendix A: Assessment Questions

What is Technology?

Which of these things are examples of technology?
 Circle all of the items that you think are technology.




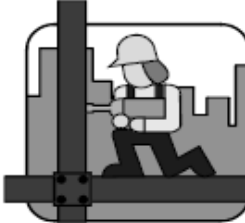












 Shoes	 Subway	 Dandelions	 Cellular Phone
 Oak Tree	 Bridge	 Television	 Cup
 Bird	 Factory	 Bandage	 House
 Power Lines	 Bicycle	 Lightning	 Books

How do you know if something is technology?

What is an Engineer?

What kinds of work do engineers do?

Circle the kinds of work that you think engineers do for their jobs.

 <p>Improve Bandages</p>	 <p>Develop Better Bubble Gum</p>	 <p>Design Ways to Clean Water</p>	 <p>Construct Buildings</p>
 <p>Drive Machines</p>	 <p>Arrange Flowers</p>	 <p>Read About Inventions</p>	 <p>Figure Out How to Track Luggage</p>
 <p>Work as a Team</p>	 <p>Create Warmer Kinds of Jackets</p>	 <p>Install Wiring</p>	 <p>Sell Food</p>
 <p>Repair Cars</p>	 <p>Design Tunnels</p>	 <p>Clean Teeth</p>	 <p>Write Computer Programs</p>

What is an engineer? _____

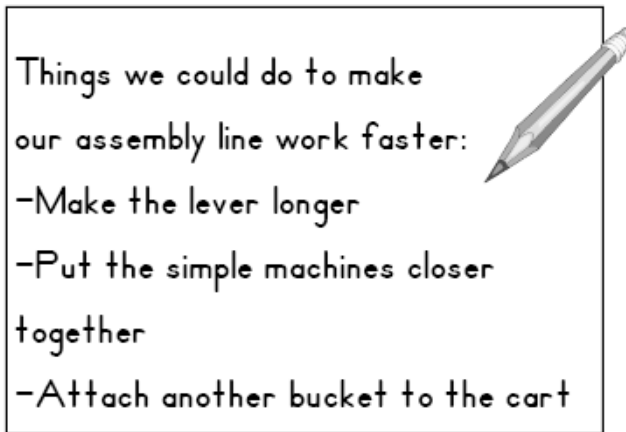
Vocabulary Check!

Complete each of the sentences below by circling the BEST choice of the words in **BOLD**.

1. Some **materials/properties/designs** of a piece of wood are how strong it is and how smooth it is.
2. Some **materials/properties/designs** that can be used to make roads are concrete, flat rocks, tar, and gravel.
3. **Technology/Science/Design** is anything that people make to solve a problem.
4. When you **use/design/build** a chair, you need to think about how big and how strong it needs to be.
5. **Scientists/Engineers/Artists** are people who solve problems using math, science, and imagination.

1. David and Sonali are working on a design. They are making this list. Which step of the engineering design process are they working on? Circle **ONE** answer.

- A. Ask
- B. Plan
- C. Create
- D. Improve



Things we could do to make our assembly line work faster:

- Make the lever longer
- Put the simple machines closer together
- Attach another bucket to the cart

2. Dana and Leif were building a small windmill together. The two of them attached the blades to the rotor and it began to spin.

Which step of the Engineering Design Process do you think Dana and Leif were working on? Circle **ONE** answer.

- A. Ask
- B. Imagine
- C. Plan
- D. Create

1. Yi Min and Chen were talking about how to mix earth materials to make a strong mortar. Yi Min suggested mixing sand and straw with water. Chen suggested mixing clay and straw, because clay is sticky. They continued to think of more ideas.

Which step of the Engineering Design Process do you think Yi Min and Chen were working on? Circle **ONE** answer.

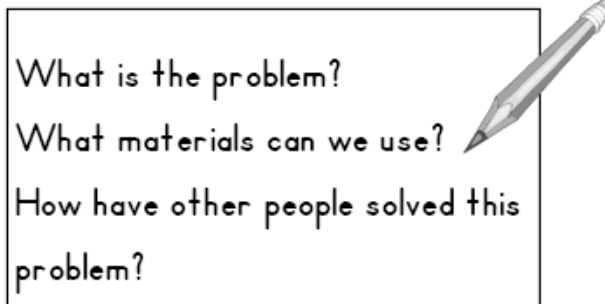
- A. Ask
- B. Imagine
- C. Plan
- D. Create

2. What step of the Engineering Design Process would Yi Min and Chen do **next**? Circle **ONE** answer.

- A. Ask
- B. Imagine
- C. Plan
- D. Create

3. Antoine and Sara are working on a design. They are making this list. Which step of the engineering design process are they working on?

- A. Ask
- B. Imagine
- C. Plan
- D. Create



1. Maria and Bobby designed a chair that they wanted to make. Bobby suggested making it out of wood. Maria wanted to use plastic or metal.

A

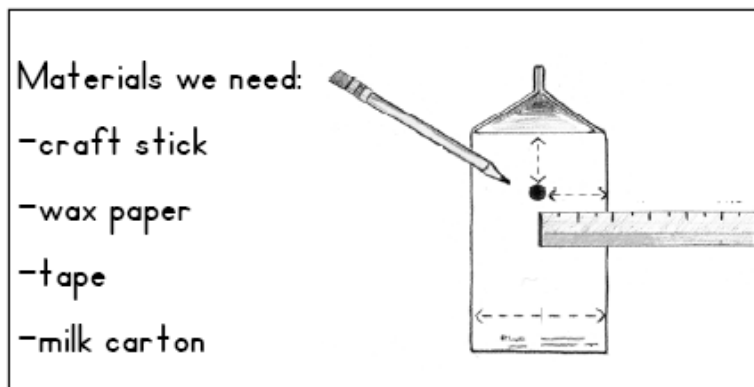
B

What are Maria and Bobby talking about?

- A. Properties of the chair
- B. Material for the chair
- C. Size of the chair
- D. How the chair will be used



2. Caitlin and Faith are working on a design. They are making this list and drawing. Which step of the engineering design process are they working on?



- A. Ask
- B. Imagine
- C. Plan
- D. Create

