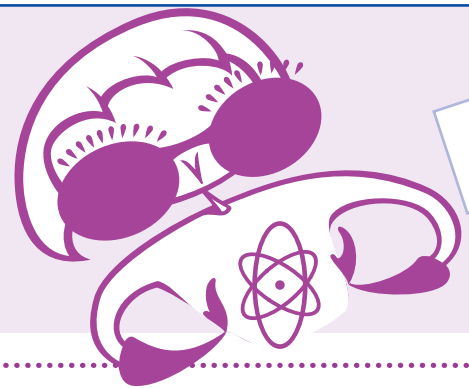


CHALLENGE YOURSELF: Engineering Match-Up

See if you can match up the famous and not-so-famous engineers and inventors with their achievement:



5. Bessie Blount

3. Earl Bakken and Wilson Greatbach

2. Ellen Ochoa

1. Grace Hopper

6. Maria Telkes

4. Charles Strite

F. An astronaut who developed an optical system to guide robots.

E. Invented the first human heart pacemaker.

D. A solar energy expert who invented "solar distillers", a way to make drinking water from sea water for use in a life raft.

C. Invented the pop-up toaster.

A. Invented the computer compiler, which translates English and other languages into computer language.

B. Developed a device to help disabled people eat more easily.

ANSWERS:
1-A; 2-F; 3-E; 4-C; 5-B; 6-D

Web Sites to Check Out

There are hundreds of web sites dedicated to helping you discover the world of design, innovation, invention, and engineering. Here are a few that you can start with. You'll find many more links as you explore.

Happy surfing!

- Discover Engineering On-line www.discoverengineering.org
- Get Tech www.gettech.org
- NASA for Kids www.nasa.gov/kids.html
- Try Science www.tryscience.org
www.hhmi.org/coolscience/
- Imagination Place!
www.edc.org/CCT/imagination_place
- How Stuff Works <http://express.howstuffworks.com/express-free.htm>



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WEPAN Administration Center
Lore-EI Center
Stevens Institute of Technology
Castle Point on Hudson
Hoboken, NJ 07030 www.wepan.org

CONNECTIONS

5TH AND 6TH GRADES

CONNECTING KIDS TO THE WORLD OF ENGINEERING

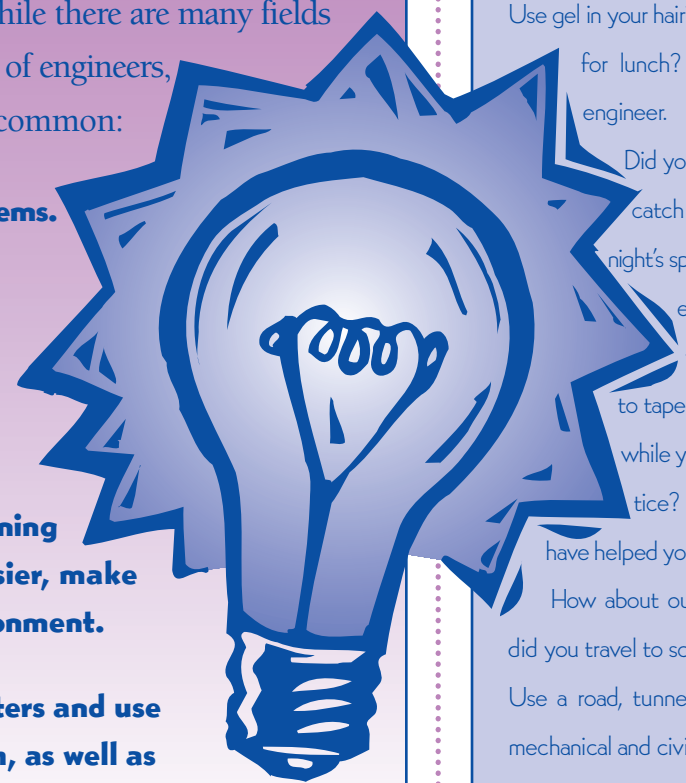
Welcome to Connections!

Do you like to play with clay or puzzles? Do you like taking things apart and putting them back together? Do you look at everyday items and wonder why they are shaped a certain way? Did you ever think you could make them better?

If you answered "yes" to some of these questions, engineering may be in your future.

What do engineers do? While there are many fields of engineering and many kinds of engineers, they all share some things in common:

- 1 Engineers like to solve problems.**
- 2 Engineers are creative and curious about the world around them.**
- 3 Engineers try to make the world a better place, by designing things that will make life easier, make it safer, or preserve the environment.**
- 4 Engineers work with computers and use technology, science, and math, as well as language arts and other subjects to solve problems.**



Engineering MY WORLD

You probably know that engineers are responsible for designing things like cars and computers. But did you ever stop to think that just about everything that you've done today has been influenced in some way by a team of engineers?

Did you put on a raincoat today? Use gel in your hair? Eat a bag of chips for lunch? Thank a chemical engineer.

Did you turn on the TV to catch the weather or last night's sports results? Check email before breakfast? Set the VCR to tape your favorite show while you're at soccer practice? Electrical engineers have helped you with these things.

How about outside the house... did you travel to school by car or bus? Use a road, tunnel or bridge? Thank mechanical and civil engineers.

Take a look at some of these feats

Continued on page 2

