

A close-up photograph of a young girl with freckles, looking down and to the right with a thoughtful expression. She has dark hair pulled back. The background is softly blurred, showing another person in a light blue shirt. The entire image is framed by a red border.

## Talk About It

What is the role of science in people's daily lives?



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# SCIENCE FOR ALL

## Vocabulary

altered

erode

absorb

concentrated

innovations



# How LONG Will We LIVE?

In 1900 the average American lived to be 47 years old. By the end of the twentieth century, the average life span was 76 years. The U.S. government predicts that by the year 2100, 5 million Americans will be 100 or more years old. Many of today's kids will live to see the year 2100. Some may be around to ring in 2140!

## FOREVER YOUNG

In the future, scientists may be able to more easily replace body parts that don't work well with new ones.

Cynthia Kenyon, a scientist who studies aging, believes it may be possible for humans to live twice as long and still look and feel half their age. Kenyon has proved that this is possible for tiny creatures called round worms. She **altered** some chemicals inside their bodies. This change allowed worms to live four times as long as they normally would. The change also turns back the effects of aging. The worms look as young as when they were babies!

No matter what the future may hold for us, one thing seems certain: we will have longer, healthier lives to look forward to!



## WATER

Have you ever wondered why the ocean is salty? The short answer to that question is because sodium and chloride, the two ingredients in salt, flow into it.

Want a little more information? Here's the full answer: Rivers **erode**, or wear away, rocks containing sodium and carry it out to sea. Undersea volcanoes spit up chloride. Sea creatures **absorb** many of the other minerals found in the ocean, such as calcium and sulfur. They do not soak up sodium or chloride, however, so the salt gets **concentrated**. It stays in the sea water and accumulates.

### Indian Ocean

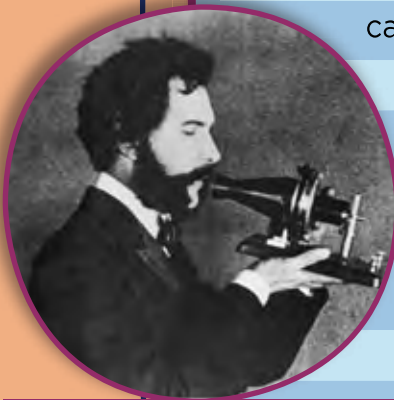


## Household Inventions Time Line

Here are a few of history's most amazing **innovations**, or inventions. Many seem almost magical, while others are tools to make life a little easier or more fun.



**Dorothea Lange with camera**



**Alexander Graham Bell, inventor of the telephone**

ca. 3800-3600 B.C.	Wheel
ca. A.D. 100	Paper
1870	Chewing gum
1876	Telephone
1885	Bicycle
1888	Hand-held camera
1891	Zipper
1893	Movies
1904	Ice-cream cone
1927	Television
1938	Ballpoint pen
1945	Microwave oven
1963	Home video recorder
1972	Compact disc
1983	Cell phones
1991	World Wide Web
1995	DVDs



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