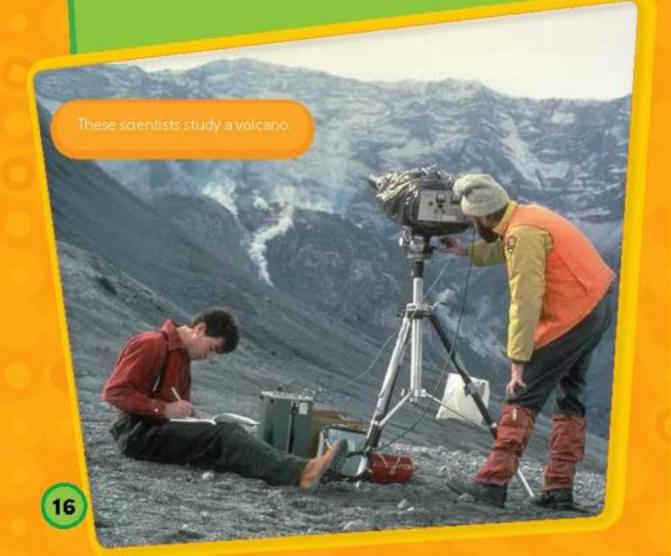


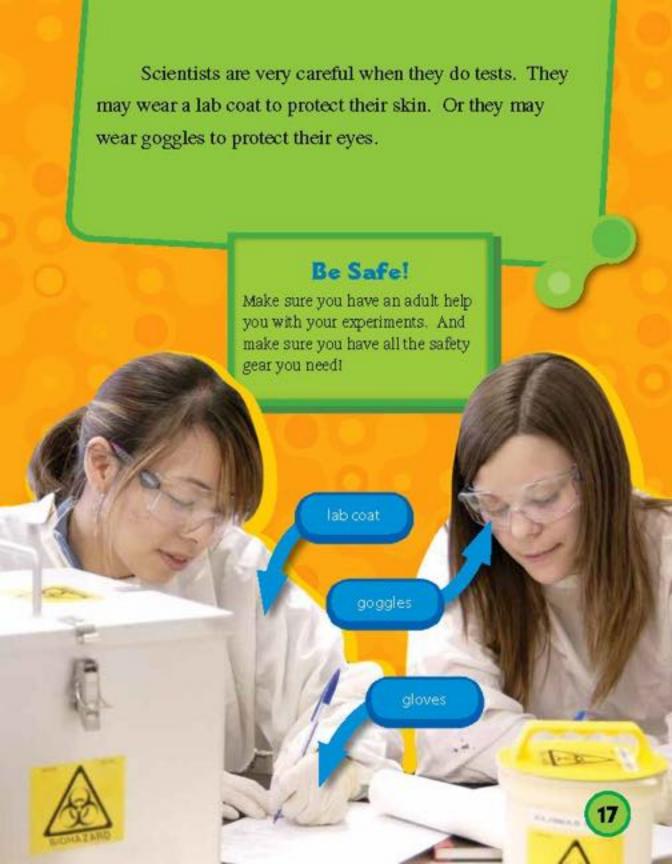
Scientists use many fancy tools. If they are studying stars, they may need a telescope. This is a tool that helps them see far into space. If scientists are studying something such as small bugs, they will need different tools. They may need a microscope. This makes small objects look bigger.

Scientists use many basic tools. They may use things such as watches or timers. They may use measuring cups or rulers. They may use a camera to take pictures. The tools that scientists use are endless!



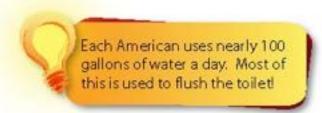
Once scientists have their supplies, it is time to list the steps and do the test! Scientists list all the steps they will take before they do the test. They do this so that they won't forget steps or make mistakes. They also do this so other scientists can do the test, too. This is important. Scientists do not know if a hypothesis is true until many people test it and prove it.

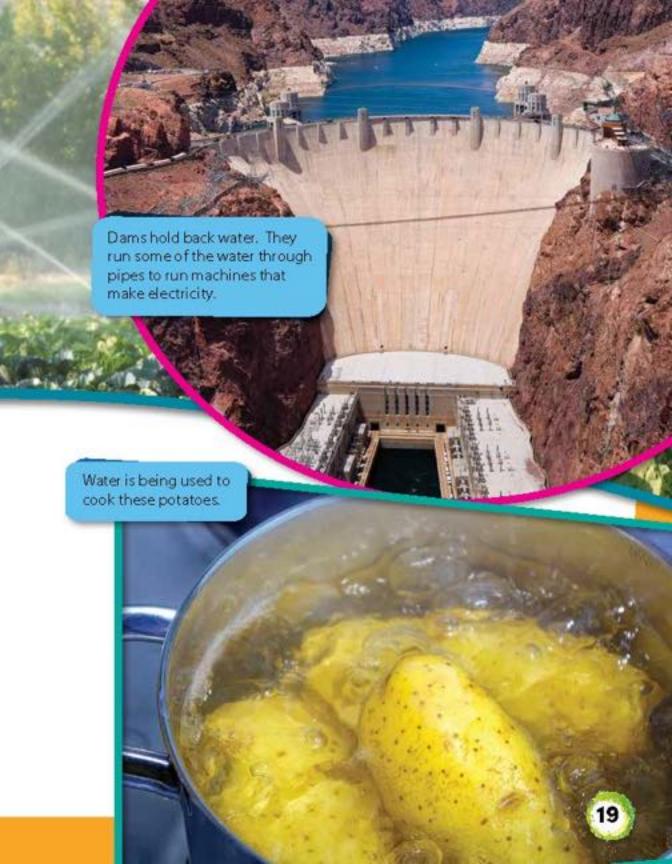






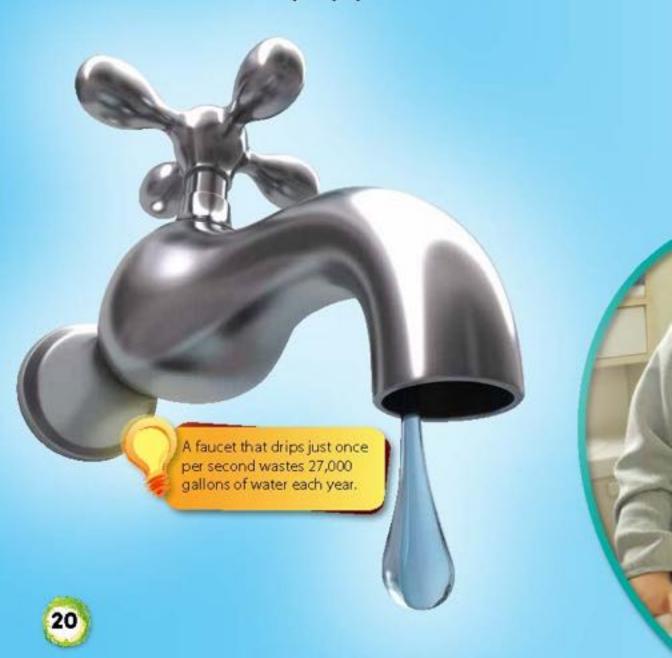
We use water in many ways. It is not just for drinking. We use water to clean things, including ourselves. We use water to grow food to eat. We use water to cook food. We also use water to make power. We can use that power to light our homes.



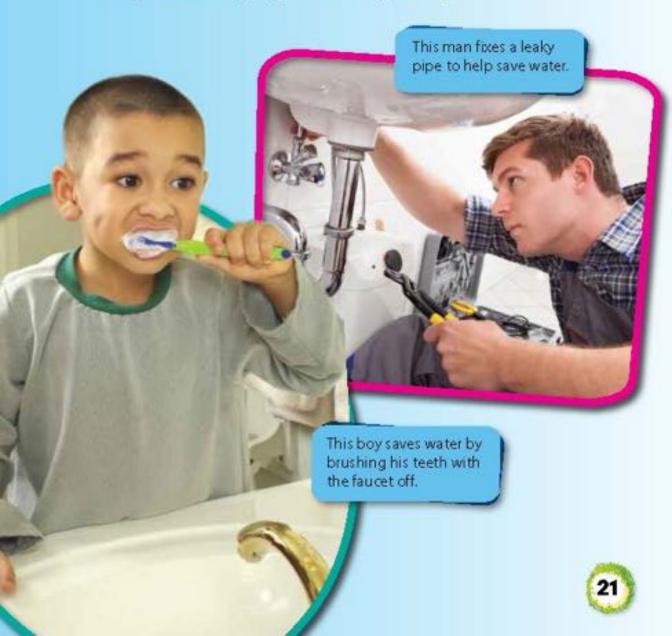


Saving Our Water

We need water to live. It is important that we do not waste it. There are many ways you can save water.



You can take shorter showers. You can turn the sink off while you brush your teeth. If you have a pipe that leaks, make sure you get it fixed right away!



We must keep our water clean. If it is dirty, we cannot use it. Factories may make water dirty. They may leak **chemicals** into it. This **pollutes** the water. Pollution makes water unsafe.

Oil may spill into the ocean. This hurts plants and animals that live there. Some may even die.



For Doctors

Lasers can be used in other ways, too. The bright light of a laser cuts like a sharp knife. Doctors use the narrow beams of lasers to work in small spaces. Sometimes, they use lasers on people's eyes. Laser eye surgery helps people see better. Other times, doctors use lasers on skin. Lasers can clean deep under the skin. They can also be used to make scars fade.

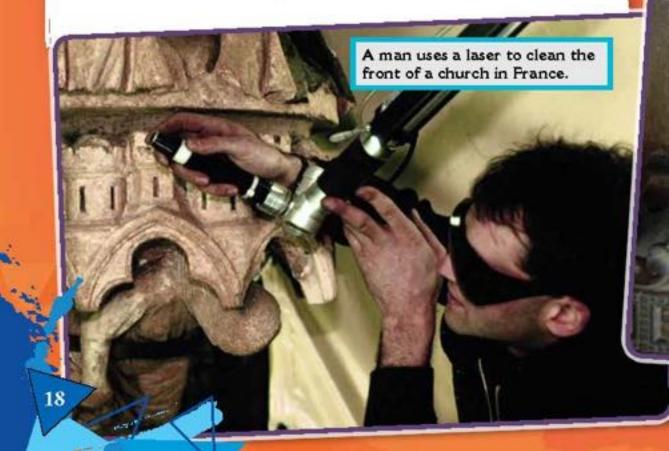


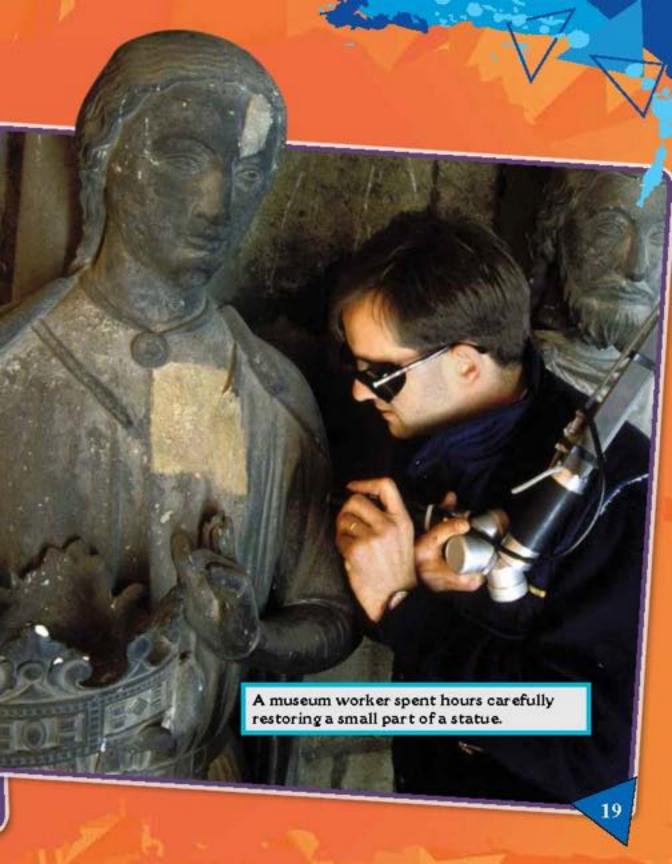


For Museum Workers

Pointing lasers at works of art may seem like a bad idea. But lasers can actually help clean them. Paintings and statues can be cleaned by laser light.

Highly trained people shine laser lights at works of art. The light removes a thin layer from the surface. Dirt, oil, and grease all come off with the strong light. But, people must be careful. Laser lights are so strong that they can take off paint, too!



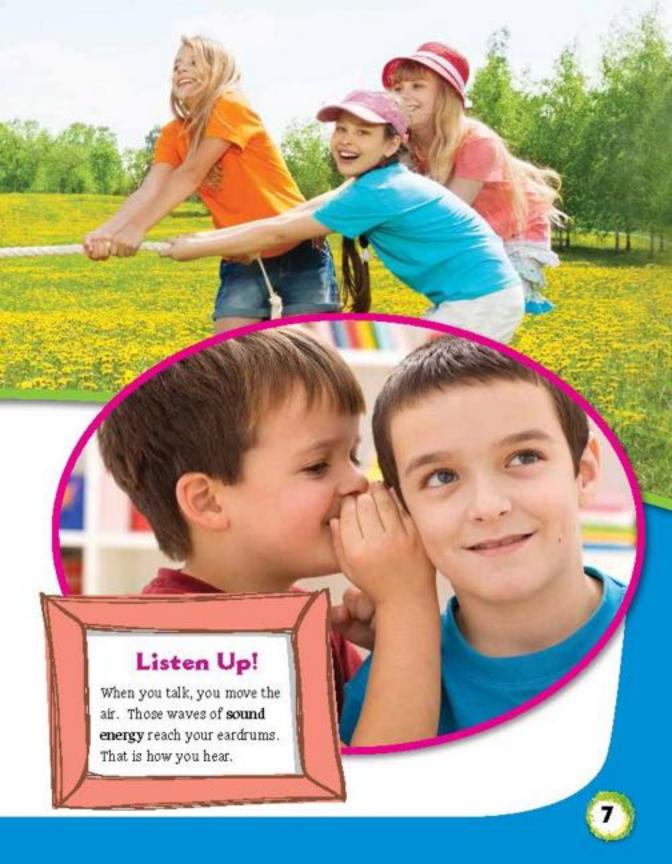




Scientists rely on lasers to do their jobs. They use them to do things that other tools can't. Many people use tools to cut and drill holes. But tools can become dull after a while. Lasers do not.

Scientists also use lasers to measure very long distances. In fact, lasers were used to find the distance to the moon. It would have been impossible to measure this distance with rulers!





Hello, Sunshine!

Energy comes from many sources. One source is always working for us—the sun. The sun is full of energy. Without the sun, we could not live on Earth.

The sun sends us both heat and light. Plants use the sun's **light energy** to grow. When you eat plants, that energy is passed to you.



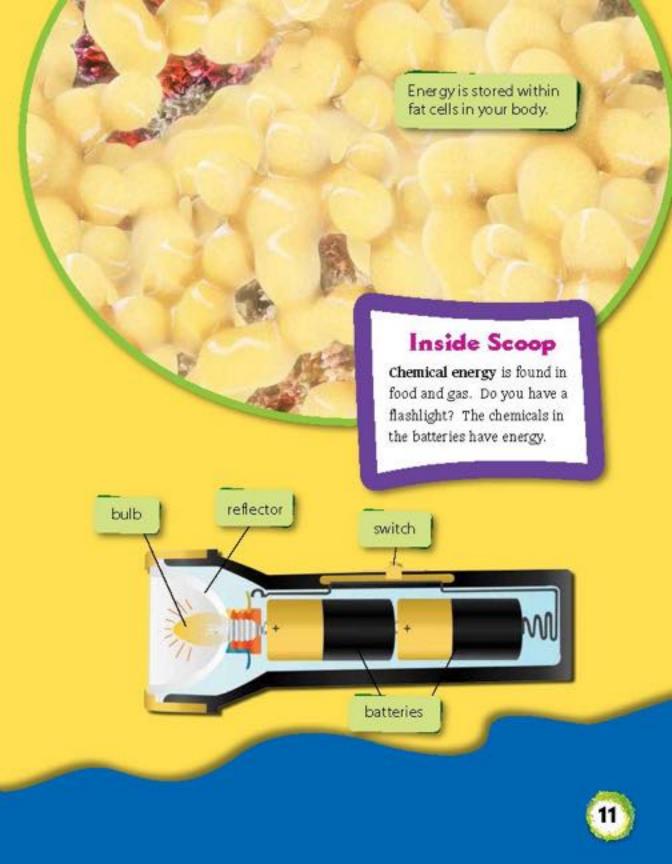


Rise and Shine!

Do you ever wake up and still feel tired? Your body needs energy, just like a car needs gas. The sun's energy is stored in the food you eat.

Once you eat, your body gets to work. You use more energy when you are active. If you are not active, the food's energy is stored inside your body.

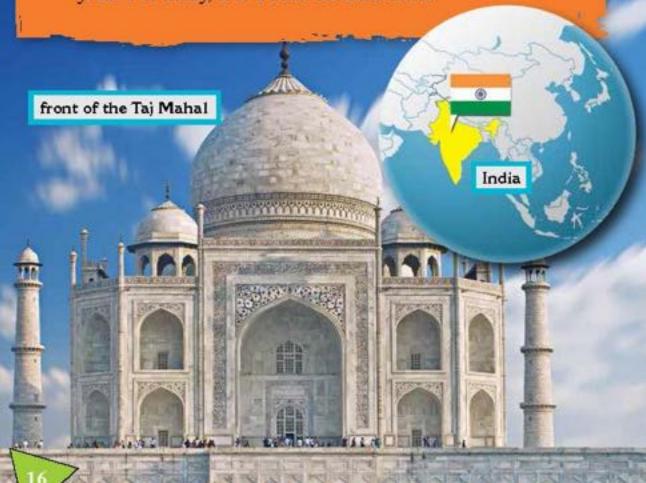


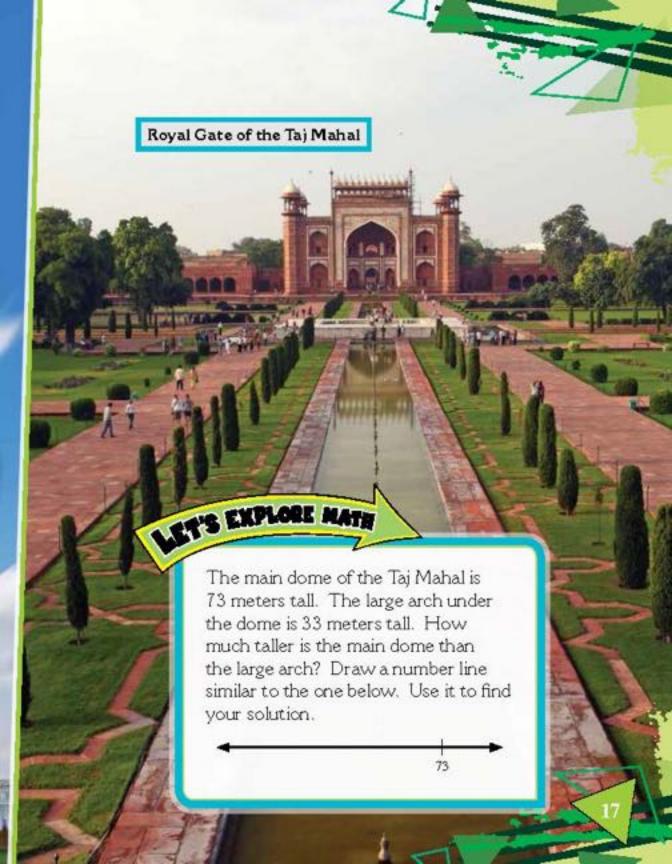


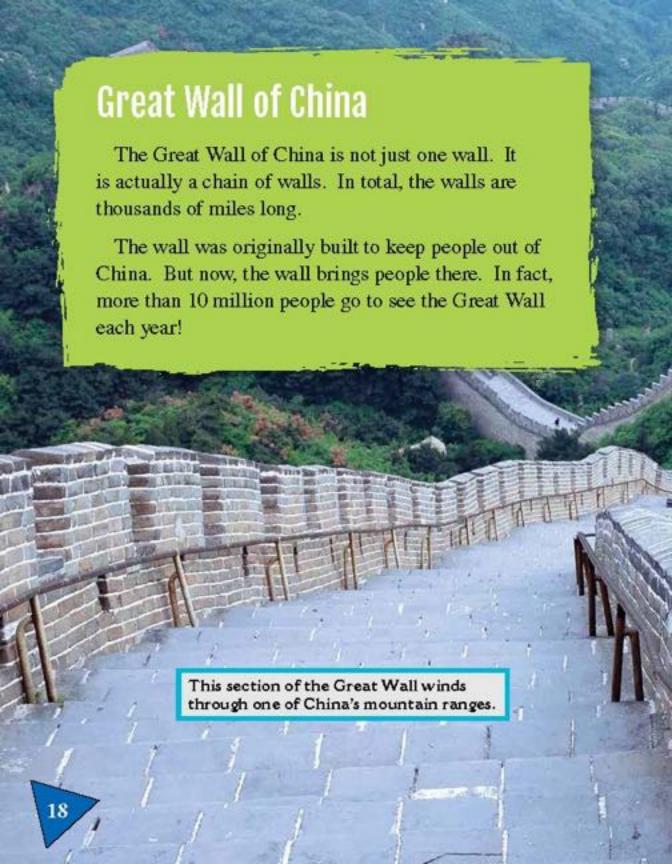


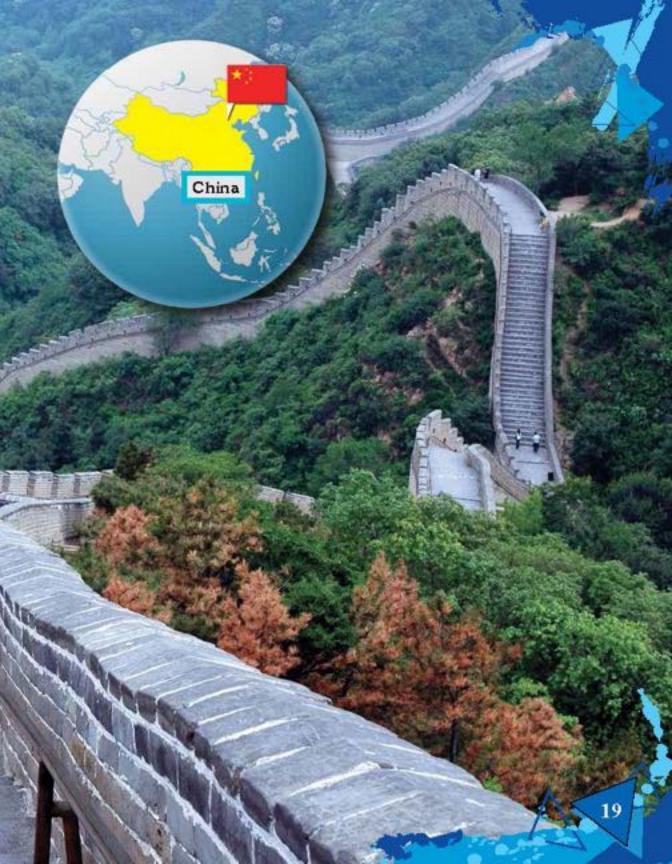
A landmark in India tells a tale of love and loss. It is called the Taj Mahal (TAHJ muh-HAHL). Emperor Shah Jahān (SHAW juh-HAHN) had it built for his wife. She had died while having a baby. So, Jahān built the Taj Mahal to be her tomb.

Today, millions of people visit the Taj Mahal each year. For many, it is a must-see landmark.











The Great Buddha statue rests in the green hills of Japan. It honors the Buddha. He was a religious figure. The huge statue is more than seven hundred years old.

When the statue was first built, it was kept in a wooden temple. One day, a big wave hit the temple. The temple washed away. People were shocked to see that the statue had stayed in place. It has been out in the open air ever since.

