

NATIONAL SCIENCE EDUCATION STANDARDS

A. Science as Inquiry

Abilities necessary to do scientific inquiry

E. Science and Technology

K–4

Understandings about science and technology

- o People have always had problems and invented tools and techniques (ways of doing something) to solve problems.
- o Women and men of all ages, backgrounds, and groups engage in a variety of scientific and technological work.
- o Tools help scientists make better observations, measurements, and equipment for investigations. They help scientists see, measure, and do things that they could not otherwise see, measure, and do.

5–8

Understandings about science and technology

- o Many different people in different cultures have made and continue to make contributions to science and technology.
- o Science and technology are reciprocal.
- o Perfectly designed solutions do not exist.

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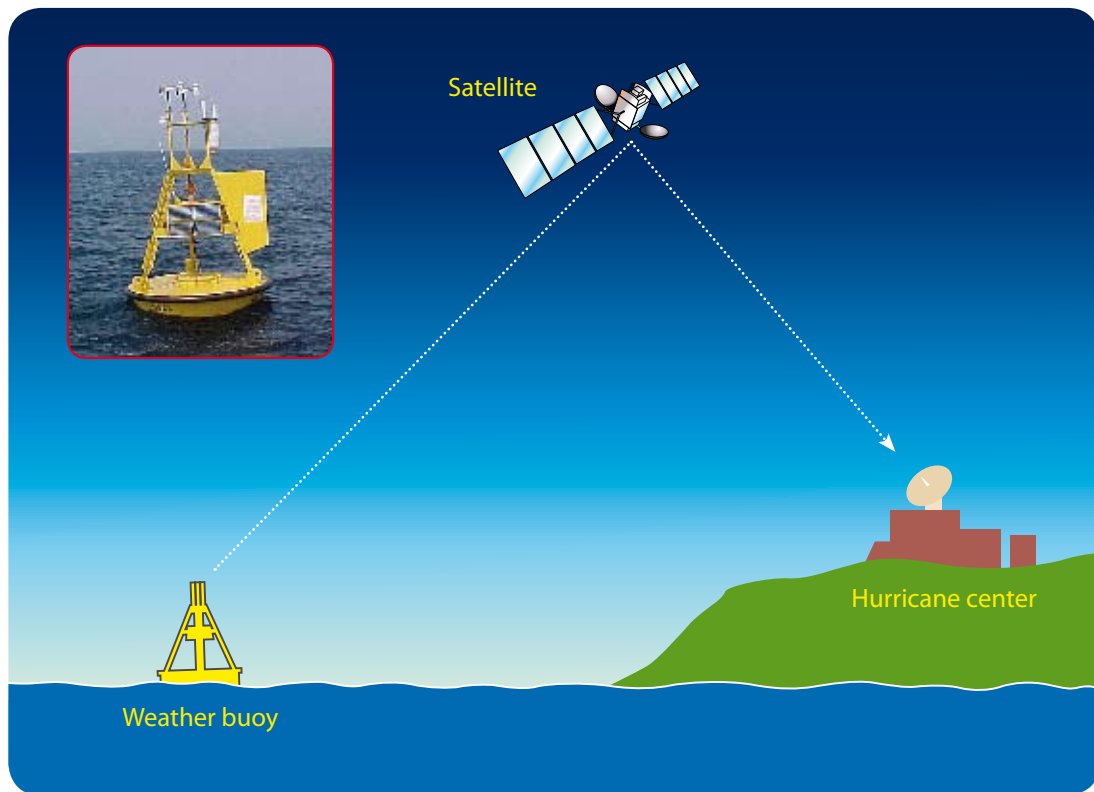
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Tracking Hurricanes

Information on storms also comes from weather buoys floating in the ocean. They send signals to satellites. The satellites **relay** these signals to a hurricane center.



Weather buoys like this one transmit information about water temperature, wave height, wind speed, and wind direction to weather satellites passing overhead.

By using the information from weather buoys and satellites, weather **forecasters** at a hurricane center predict how strong a hurricane will be and where it will go.



A big hurricane
can have an eye over
20 miles (over 32
kilometers) wide!

The eyewall

The eye

The center or “eye” of Hurricane Katrina—seen from the
cockpit of a hurricane hunter—surrounded by the eyewall

Test a Space Blanket

Here is a way to gather evidence that space blankets work.

You will need:

- an adult to help you
- plastic soda pop bottles the same size, with caps
- hot tap water
- aluminum foil
- tape
- a watch
- a pencil and paper

