

POP! TEACHER RESOURCE

Lesson Plan

Talking about Technology

Lesson Plan for *GPS Technology*

Grade 1

Objective

To help students practice using questions and context to determine the meaning of words in a text.

Things Needed

- *GPS Technology* book
- QR code scanner or access to the “GPS Technology” web page on the Pop! website: <http://popbooksonline.com/21st-century-inventions/gps-technology>
- Whiteboard

Before the Activity

Read *GPS Technology* out loud to students.

Activity

GPS technology helps people know how to get from place to place. A GPS can track a person’s location. It can help them find where they want to go. A GPS gets information from satellites. Without satellites, GPS would not be possible. Open *GPS Technology* to pages 4 and 5. Scan the QR code on page 5, or click on the “Watch a Video” tab of the “GPS Technology” web page on the Pop! website. Read the video’s caption out loud to students.

Like many kinds of technology, satellites have many specific words that are used to describe them. Knowing what these words mean is a key part of understanding how the technology works. Write the following words and their definitions on the whiteboard, using the definitions from the Scholastic Children’s Dictionary:

- satellite: “A spacecraft that is sent into orbit around the earth, the moon, or another heavenly body.”
- orbit: “The curved path followed by a moon, planet, or satellite as it circles another planet or the sun.”



- receive: “To get or accept something that has been sent or given.”
- device: “A piece of equipment that does a particular job.”

Then use the following prompts to discuss the caption’s text:

- Satellites send out signals as they orbit. Where are the satellites when they send out signals? (Answer: They are moving around Earth in outer space.)
- To receive means to get or accept something that has been sent. What receives the signals that are sent by the satellites? (Answer: GPS devices)
- A device is a piece of equipment that does a particular job. What job does a GPS device do? (Answer: It picks up signals from satellites and uses them to show where things are.)

A GPS device gets its name because of what it does. GPS is short for “global positioning system.” The words in this name are chosen because they describe how a GPS works. Write the following definitions on the whiteboard, again using the definitions from the Scholastic Children’s Dictionary:

- global: “Of or having to do with the whole world.”
- position: “The place where someone or something is located.”
- system: “A group of things or parts, related or connected so that they work together in an organized way.”

Then ask the following questions:

- Why do you think the word *global* is part of the name? (Sample Answer: People can get the signals all over the world.)
- Why do you think the word *position* is part of the name? (Sample Answer: GPS devices help people know where they are located.)
- Why do you think the word *system* is part of the name? (Sample Answer: Many satellites and devices work together to send and receive the information.)

Evaluation

Could students answer the questions?

Standards

This lesson plan may be used to address the Common Core State Standards’ reading standards for informational texts, grade 1 (RI 1.4).

