

The Telephone and Alexander Graham Bell

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Standards

- IL.5.A STANDARD: Locate, organize, and use information from various sources to answer questions, solve problems and communicate ideas.
- IL.5.A.1a > Identify questions and gather information.
- IL.5.A.1b > Locate information using a variety of resources.
- IL.5.B.1a > Select and organize information from various sources for a specific purpose.
- IRA.1.7 ...demonstrate an understanding of the impact of physical, perceptual, emotional, social, cultural, environmental, and intellectual factors on learning, language development, and reading acquisition
- IRA.13.2 ...initiate, implement, and evaluate professional development programs
- IRA.14.3 ...promote and facilitate teacher- and classroom-based research

Overview and Rationale

The students will complete a KWL chart on information on Alexander Graham Bell and his invention, the telephone. They will also create a telephone using different materials provided by the teacher. At the computer lab the students will research information about Alexander Graham Bell and will create a timeline of how telephones have evolved over time. The students will be doing this project because it is important for them to realize that a lot of the technology that we have today was created many years ago. The technology we use today has evolved a great deal since it was first invented. Also, it is important for them to be familiar with different inventors. Hopefully this project will open the students' minds to different contraptions they can invent which can possibly benefit society in the future.

Objectives

The students will be able to:

- List prior knowledge on Alexander Graham Bell
- Research new information on Alexander Graham Bell
- state their knew found knowledge on the topic
- identify how Alexander Graham Bell's invention has affected our lives today

Materials

- Sheet of paper for KWL
- Computer and Internet Access
- Tin Can
- String

Procedure

1. Students will construct a telephone. They will take on the role of an inventor and will be able to invent a telephone out of different materials that will be provided. There should be at least three different choices of cups and string made out of different materials so that students can mix and match what they think will work. The students will work in pairs .
2. Once the students completed their telephones, they will test out how well their telephones work.
3. Have the students test other groups phones to determine if their telephone's material work better or worse than others.
4. Have the students come together to discuss the telephones they made and why they chose the materials they did.
5. Next, begin a KWL chart with the students and have the students discuss all of the information they currently know about the telephone and its inventor.

6. Then have the students write down questions that they would like to find out about the telephone and Alexander Graham Bell.

7. Next, take students to the computer lab to research information on the telephone and Alexander Graham Bell. They should be looking for answers to the questions they came up with and any facts that they may find interesting.

-Make sure to use these websites:

<http://www.loc.gov/rr/scitech/mysteries/telephone.html>

8. The students will then make a picture time line of the different telephones throughout the years. They will get into groups of two or three and will receive a year or era and locate and print a picture of the phones used during that time. (They will complete this project while they are in the computer lab.)

9. Bring students back to the classroom and have them create the telephone timeline at the front of the board. Once the timeline is complete the students will walk from the beginning of the timeline to the end to see the drastic changes the telephone went through from its original form.

10. Next, we will discuss the information the students collected from the computer lab and finish the L in the KWL chart.

Assessment

To conclude this lesson students will journal about a time that they have invented something. If they have never made an invention they can journal about something they would like to invent to make their lives easier. The journal will be turned in to the teacher once it is complete.