

An IT Look at Cell Phones

To complete this Interest Project, girls must complete the following:

- Do the one REQUIRED activity
- Do ONE activity of your choice from each of the THREE categories (LEARN, DO, SHARE)
- Design and do ONE activity of [YOUR OWN](#)
- Create a short [REFLECTION](#) after you've completed [all of the activities](#)

REQUIRED:

Explore the evolution of cell technology:

- Research the history of cell phones
- Identify the basic elements in a cellular network
- What frequencies do different cell phones use?
- What is the difference between GSM, TDMA, CDMA, and IDN?
- Identify how cell sites are setup.
- Explain what causes calls to drop.

LEARN:

1. Identify the difference between international cell phones and domestic US cell phones. (Resource: www.lodgephoto.com/articles/cellphones_europe.htm)
2. Compare all available options on 3 different styles of cell phone, including voice and data, text messaging and photos.
3. Research 3 cellular service providers in your area and identify the pros and cons of each provider.

DO:

1. Create a process to preserve pictures taken on a cell phone. Demonstrate text messaging and data applications available on a cell phone
2. Explain the benefits of Blackberry's and Trio's as opposed to cell phones.
3. Put on a workshop demonstrating the basic functions and features of cell phone.

SHARE:

1. Research 4-6 cell phone based careers, including:
 - a) Skills and Responsibilities
 - b) Work Environment
 - c) Training
 - d) Education
 - e) Earnings

Share what you have learned with your troop.

2. Learn about the equipment manufactures and the technologies involved in cellular networks.
3. Describe a future career centered on the use of a camera cell phone.
4. Interview a radio frequency engineer and share what you have learned with the troop.