The Internet: Present and Future

Handwritten annotations:
- Phones— cell phones
- Smart Board
- Printer
- Smart Watch
- Computers — Chromebook (cart)
- Projector
- sensor
- clock
- HVAC
- wireless router
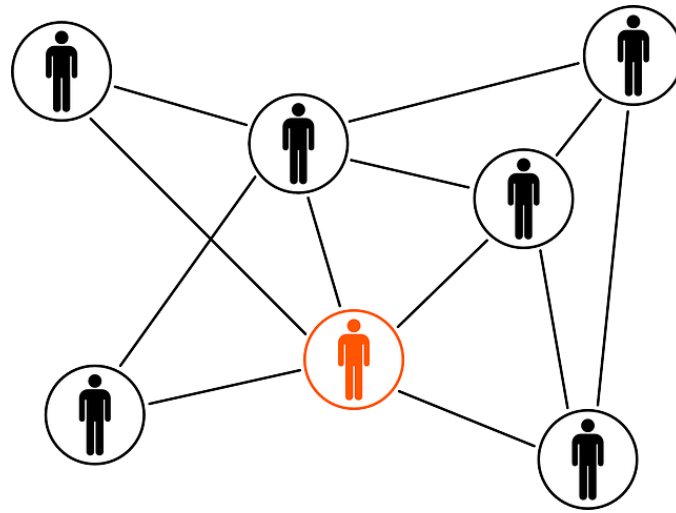- teacher phone

Journal:

Identify as many objects in the room as you can that are connected to the Internet

Unit 3 Lesson 2

Objectives:

- Students will understand the development of the Internet.

- Students will understand how devices communicate on the Internet.

- Students will imagine/design things (that don't yet exist) that could connect to the Internet.

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What's connected?

1. Discuss: What different kinds of things are connected via the Internet?

2. Review investigations of Internet usage statistics completed for homework from 3-1.

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The Internet of Things
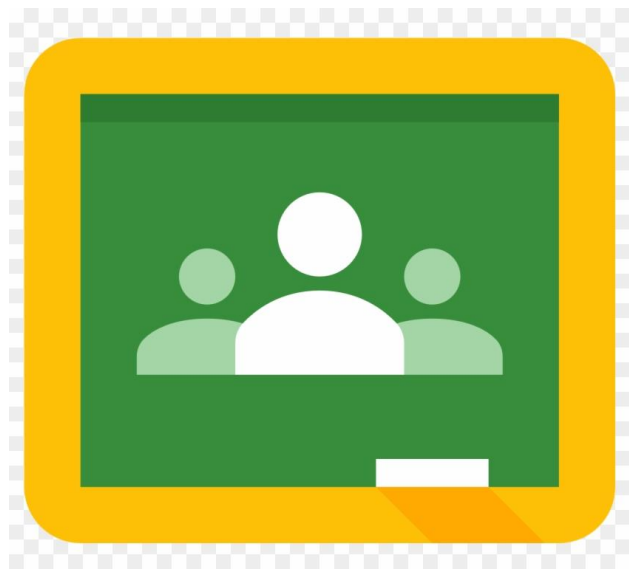
Video **(5 min)**

An average everyday person uses objects connected to the Internet in our current society: (3:58)

Share what you saw

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Reading

Pre-reading: What is ubiquitous?

read the article: (~2.5 pages)

Small Group Activity

Imagine a device that might someday be a part of the "Internet of Things," but currently does not exist. As a small group, submit a document answering the following questions:

- What is the purpose of this device?

- What data will your device collect?

- What sensors will it use?

- Who will make use of the data?

- What will be the range of values needed to store the data?

This document should also include a sketch of the device.

If Time – Code it

☐**Project:** You have been hired by an electronics company. Your job is to write a Python program that allows the user to create an advertisement for their new computational device.

Sample Output (bold is user input):

What is your object?

  Shoe

What data will your **shoe** take in as input?

  foot temperature

How will you receive the **foot temperature** from your **shoe**?

a. Computer b. Phone Application c. Console on the object

  c

Where would this console be?

a. Clip on b. On the object c. Other

  c

Please type your other location

  on the user's head

Coming soon to stores! This amazing innovation is a simple **shoe** that can record your **foot temperature**! It is easy to control from a **console** located **on the user's head**! Order now!

Your Python Program Must…
Greet the user
Ask the user between 5-10 questions about their product (School appropriate please!)
Take in user input, then output a commercial based on their responses
Use loops and if/else statements to validate user input for multiple choice answers
Include comments explaining how the code works

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Homework

☐ Read *Blown to Bits* (Pg 303 - 306) - IP Addresses - stop at "The Key to It All: Passing Packets."

☐ Submit a response on Google Classroom

    ☐ Choose one Word, one Phrase, one Sentence to summarize

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