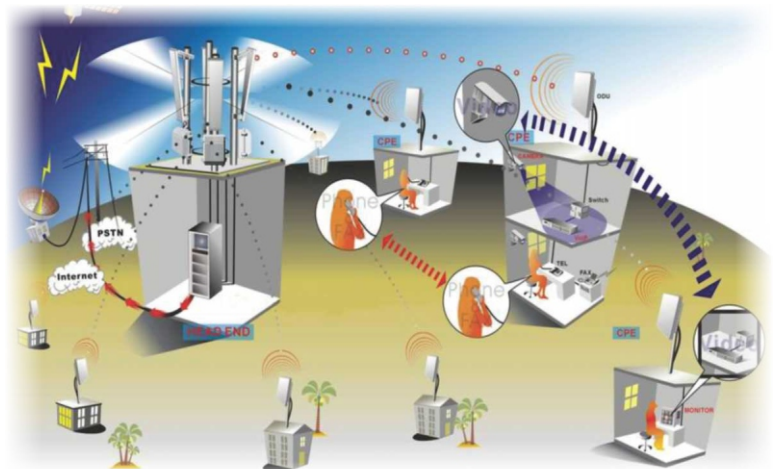# HOW INFORMATION TRANSFERS

Data transfer rates are typically measured in bits per second (bps) as opposed to bytes per second, which can be understandably confusing. Because there are eight bits in a byte, a sustained data transfer rate of 80 Mbps is only transferring 10MB per second. While this is confusing for consumers, Internet service providers must enjoy measuring data transfer rates in bps since it makes their Internet access speeds sound 8x faster than they really are.

No Charges

There are no long-distance charges when you send or receive information on the Internet.

Information Across

When you send information across the Internet, organizations which pay to set up and maintain their own parts on the Internet allow the information to pass through their networks free of charge. This lets you avoid long-distance charges.

The Internet

The Internet is made up of thousands of networks that belong to businesses, government agencies, colleges and universities around the world. These organizations pay to set up and maintain their own parts on the Internet.

Connection Paid

Individuals and companies pay Internet Service Providers (ISP) to connect their computers to the Internet. Like here in the Philippines most subscribers are connected to the providers like PLDT, Globe, Smart, Sun and many more.

Who Offers Free Information

Governments

Governments offer information such as national budgets, list of schools and its population, programs, projects and news. Even NASA reports are available on the net to educate the public.

Individuals

Individuals around the world offer information to give something back to the community. For example, one individual offers the steps on how to cook a certain food. Others give information on health, sports update and many useful topics 24/7 on the internet.

Colleges and Universities

Colleges and universities make information such as journals, tutorials, test and software available to the public and to their respective students.

Private Companies

Companies offer free vast information to promote their products and related information.

Lesson 4 How Information Transfers

Lab. 4.1 Something's Gotta Give
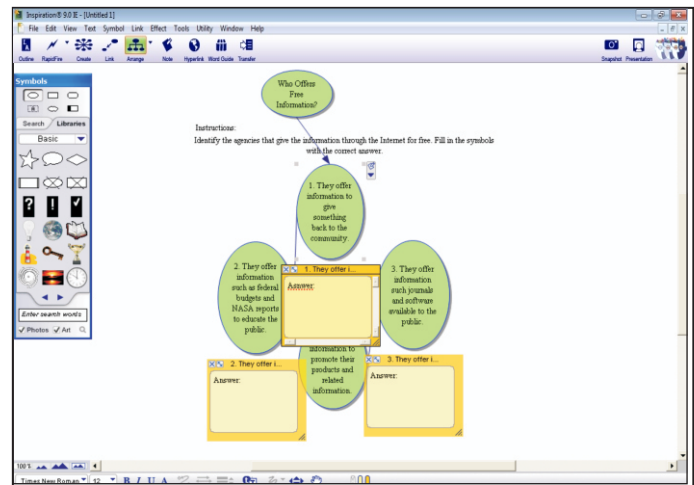
Score

Estimated Completion time: 15 - 20 Minutes

Directions:

1. Launch **Inspiration**.
2. Open and answer **Something's Gotta Give**.
3. Identify the agencies that offer information through the Internet. To answer, just click the note icon in the upper-right corner of the symbols.
4. Click the note boxes to type your answers.
5. Save the activity as **Something'sGottaGive.**

Preview:

Lab. 4.2 What's Next?

Score

Estimated Completion time: 15 - 20 Minutes

Directions:

1. Launch **Inspiration**.
2. Open and perform **What's Next**
3. Study the given figures. Identify the location of each Internet's component of information transfer. Decide which of the five (5) components should be put in the center. The rest can be put in any location.
4. Drag the picture symbols toward the location. Make sure to put the names inside the green oblong symbols.
5. Save the activity as **What'sNext**.

Preview: