

Lesson Plan for Networking Fundamentals -IT AND ME WORKS--GRADE 10 CURRICULUM

Topic: Hardware and Software

Time: Up to 6 hours

Objectives:

1. Students will be able to identify common hardware and its primary use in computer networking.
2. Students will be able to identify software used in basic peer-to-peer networking.

Activities:

Students will open a typical PC, identify (review) the parts found inside and determine whether or not a network interface card (NIC card) is needed. Install the NIC if necessary.

Students will also install and set up an operating system (Windows 95 or Windows 98) on a PC. After installing the OS the student will configure the NIC card for peer-to-peer communication.

Materials:

1. Lab set-up with one computer per lab group (two students per group).
2. Operating systems to install on lab computers (copies or license for all lab computers).
3. NIC cards to outfit lab computers.
4. Tools as needed to outfit class (screw drivers, nut drivers, etc.).

School to Career Connection:

You could invite an IT “tech person” (repair technician) to come in and talk about the hardware and software issues dealing with NIC issues.