**Networking Lab**

**Objective:**

Students working in teams of 2-3 will use the cables they made in the “Cable Making Lab” along with networking equipment and will configure, construct and test a small LAN.

**Resources Required:**

* Cables (straight-through) made from previous lab
* Switch or Hub
* 2 or more PC’s

**Step 1:** Using the straight-through cables made from the previous lab, connecteach PC to the switch or hub (connect the NIC to an empty port on the switch or hub)

**Step 2:** In each PC, configure a unique IP address and appropriate subnet mask.(Go to Control Panel>Network Connections>View Network Connections>Find the correct NIC connection, right click and go to Properties>Find the TCP/IP configuration, and go to Properties>Enter an IP address, and subnet mask)

**Step 3:** In each PC, configure a “workgroup” (or domain) name (must be the samefor all PC’s in the network), and a unique computer name. (Go to My Computer>Right click, go to Properties>Go to Computer Name>Change the computer name and workgroup name)

**Step 4:** After completing all of the above, check for connectivity by using the “ping” CLIcommand. (Go to Run>Type in CMD>When the command prompt comes up, type in *ping [ip address]* where the IP address is of the other PC in the network. A successfulping should result in 4 echos sent, 4 received 100% successful.