

PC Hardware and Networking - IT & Me

Lesson Plan for Computer Assembly

Topic: Installing a second physical hard drive on the same cable as the master

Time: 60 minutes

Objectives: (1) install a second physical drive in a PC
(2) configure the second physical drive to accept data

Activities: (1) make sure the PC has hard drive installed that is configured as the *master* and that it contains an operating system
(2) select a tested hard drive and set the jumper for the *slave* configuration
(3) connect the IDE cable and a power cable to the second hard drive
(4) boot up the computer and format the second hard drive
(5) test to make sure you can access the second hard drive
(6) install the hard drive and secure cover on the PC

Equipment/Supplies: (1) one PC computer with hard drive and OS installed
(2) a second hard drive that is tested and operable
(3) DOS 6.xx or Windows 9.x setup disk
(5) Phillips head screwdriver

School to Career Connection: this activity involves a skill related to PC repair/assembly

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Lesson Plan for Computer Assembly

Topic: Installing a second physical hard drive as a secondary master

Time: 60 minutes

Objectives: (1) install a second physical drive in a PC
(2) configure the second physical drive to accept data

Activities: (1) make sure the PC has hard drive installed that is configured as the *master* and that it contains an operating system
(2) select a tested hard drive and set the jumper for the **master** configuration
(3) install a second IDE data cable by connecting it to the second IDE slot on the main board
(4) connect the IDE cable and a power cable to the second hard drive
(5) boot up the computer and format the second hard drive
(6) test to make sure you can access the second hard drive
(7) install the hard drive and secure cover on the PC

Equipment/Supplies: (1) one PC computer with hard drive and OS installed
(2) a second hard drive that is tested and operable
(3) DOS 6.xx or Windows 9.x setup disk
(4) second IDE data cable
(5) Phillips head screwdriver

School to Career Connection: this activity involves a skill related to PC repair/assembly

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Lesson Plan for Computer Assembly

Topic: Creating hard drive partitions and logical drives using DOS 6.xx

Time: 60 minutes

Objectives: (1) remove all existing partitions on a hard drive
(2) create a primary DOS partition
(3) create an extended DOS partition
(4) make the primary DOS partition active
(5) assign a logical drive letter to the extended DOS partition
(6) prepare both partitions to accept data

Activities: (1) select a computer with a working hard drive
(2) boot up with the DOS 6.11 Disk 1 inserted in the floppy drive
(3) strike the F3 key twice to get to the A: prompt
(4) at the A: prompt, type FDISK. Select option 4 to determine current partition information
(5) Hit ESC to return to main FDISK menu
(6) If there is only one partition, select the appropriate option to delete that partition.
(7) If there is more than one partition, remove the primary DOS partition last
(8) When all partitions are removed, hit ESC to return to main menu and select option 4 to verify that no partitions remain
(9) Return to main menu and select option 1, Create partition, and create a primary DOS partition. Follow the on screen instructions to create a partition using 50% of the available hard drive space
(10) Return to the main menu and follow the on screen instructions to create an extended DOS partition
(11) Follow the on screen instructions to make the primary DOS partition active and to assign a drive letter to the extended DOS partition
(12) Hit ESC until you return to A: prompt, format both partitions
(13) Install DOS 6.xx on the primary DOS partition
(14) Reboot computer to test installation of DOS

Equipment/Supplies:

School to Career Connection: