

# Title "PC Parts"

Curriculum Business/Technology

Grade Level Span 11-12<sup>th</sup> Grade

## Purpose

Students will become comfortable with the components of a PC.

## Description

Teams of students will learn and identify components of a PC. The main learning activity will be to dismantle and reassemble the PC to working order.

	Activities	Curriculum Standards	NETS for Students
Preparation	<b>Gather resources: (PC, computer technician tool kit, reference books or handouts that identify the PC parts, and electrical safety guards)</b>		
	<b>Arrange for a computer technician as a guest speaker/resource person (optional)</b>		
Procedure	<b>As a class, establish the project's guidelines: cover safety issues when working on computer hardware, assign reading of lessons or handouts that identify computer components, and class participation requirements</b>		2
	<b>Demonstrate the proper procedures for dismantling a PC and identify each component of the PC</b>	National Business Education Standards IT/Computer Architecture Level 3-4	8, 9, 10
	<b>Group the class into teams using students with prior computer knowledge as mentors in each group</b>		
	<b>Help teams establish their work space and storage/clean-up procedures</b>		
	<b>Teams will work independently for 2-3 days</b>	IT/Computer Architecture Level 3-4	8, 10
	<b>Students will journal their procedures and experiences – this will be a self evaluation of student's learning plus a future resource for trouble shooting PCs</b>		3

<b>Students will research the world wide web for sites that will give additional information on the components of a PC for vocabulary understanding/assessment</b>	IT/Information Retrieval Level 3	7

### Tools and Resources

(List all Web sites, specific software and hardware needs)

1. **discarded CPU units (tower or desktop)**
2. **computer technician tool kits**
3. **teacher generated handouts**
4. **operating manuals**
5. **electrical safety mats and wrist bands**
6. [www.webopedia.com](http://www.webopedia.com) (PC terminology)
7. [www.foldoc.com](http://www.foldoc.com) (on-line computer dictionary)

### Assessment

(How will you assess the students' learning? If you have a rubric, record it here. Be as specific as possible)

1. Written test on the vocabulary and concepts of PC components.
2. Team project scored on a rubric based on the criteria of class participation during the dismantling and reassembling of a PC.
3. Students self-assessment of team members' participation.

### Authors (including contact information)

(Record the names and email addresses, if possible, of those who contributed to the development of this lesson sequence)

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### Personal Account

(Have you taught this lesson sequence before? What are the great learning/experiences you had?)

This lesson was designed as part of a Master of Education curriculum project. The course will be implemented in the Fall of 2002-2003. The “PC Parts” lesson will be the beginning lesson for the unit on Computer Maintenance and Repair. The goal is to help each student become comfortable with the interior parts of a PC.

This course will be assessed and evaluated at the end of the semester. The “PC Parts” lesson will be adapted as needed.

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