

FRANKLIN-SIMPSON HIGH SCHOOL

Course Name: Computer Applications

Unit Name: Unit 2 Computing Fundamentals Ch. 3 & 4

Ch. 3 – Computer Protection

Ch. 4 – Computer Maintenance

Objectives:

Identify the importance of protecting computer hardware from theft or damage.
Identify factors that can cause damage to computer hardware or media (e.g. environmental factors, magnetic fields, etc.).
Identify how to protect computer hardware from fluctuations in the power supply, power outages, and other electrical issues (such as use of computers on different electrical systems).
Identify common problems associated with computer hardware.
Identify problems that can occur if hardware is not maintained properly.
Identify maintenance that can be performed routinely by users.
Identify maintenance that should ONLY be performed by experienced professionals, including replacing or upgrading internal hardware (especially electrical) components (such as processors or drives) that are not designed to be user accessible.
Identify the steps required to solve computer-related problems.
Identify consumer issues related to buying, maintaining, and repairing a computer including: <ul style="list-style-type: none">• Factors that go into an individual or organizational decision on how to purchase computer equipment• Factors relating to maintenance and repair responsibilities.
Identify problems that can occur if hardware is not maintained properly.
Identify maintenance that can be performed routinely by users.
Identify maintenance that should ONLY be performed by experienced professionals, including replacing or upgrading internal hardware (especially electrical) components (such as processors or drives) that are not designed to be user accessible.
Identify the steps required to solve computer-related problems
Identify consumer issues related to buying, maintaining, and repairing a computer including: <ul style="list-style-type: none">• Factors that go into an individual or organizational decision on how to purchase computer equipment• Factors relating to maintenance and repair responsibilities.

Purpose of the Unit:

To pass the Computing Fundamentals test for the IC3 (Internet and Computing Core) Certification

Prerequisites:

None

Daily Lesson Guide

Day	Lesson Content and Daily Focus Questions	Tasks/Procedures		Engagement	Assessment and/or Accommodations
		Knowledge or Comprehension Activities	Critical Thinking (High Yield / Literacy /LTF/etc.)		
1	Why is it important to protect the computer hardware from theft or damage? What problems can occur if hardware is not maintained properly?	Deep Processing Org. Vocabulary Handout w/ book definition & student definition	Deep Processing Organizer	Bell Ringer Technology to define vocabulary words	Vocabulary Handout Deep Processing Organizer
2	What maintenance can be performed routinely by users? What steps are required to solve computer-related problems?	PowerPoint Presentation		Bell Ringer PowerPoint	Handouts over PowerPoint

3	What are the consumer issues related to buying, maintaining, and repairing a computer?	Study Guide over Chapter 3 (Practice Quiz) Internet Research Projects		Bell Ringer Partner Work Technology	Partner Study Guide (Quiz) Internet Research
4	What problems can occur if hardware is not maintained properly? What maintenance can be performed routinely by users?	Deep Processing Org. Vocabulary Handout w/ book definition & student definition	Deep Processing Organizer	Bell Ringer Technology to define vocabulary words	Vocabulary Handout Deep Processing Organizer
5	What maintenance should only be performed by experienced professionals? What steps are required to solve computer-related problems?	PowerPoint Presentation		Bell Ringer PowerPoint	Handouts over PowerPoint
6	What are the consumer issues related to buying, maintaining, and repairing a computer?	Study Guide over Chapter 4 (Practice Quiz) Internet Research Projects		Bell Ringer Partner Work Technology	Partner Study Guide (Quiz) Internet Research
7	Unit Test	Unit Test		Unit Test	Unit Test
