**Unit 2--Types of Computers**

Study Guide

1. Define Desktop computer.
2. A Desktop computer is intended for use at location.
3. List 5 different kinds of applications that can be run on a Desktop computer.
4. List 2 **A**dvantages and 2 **D**isadvantages of purchasing a Desktop computer.
	1. (A)
	2. (A)
	3. (D)
	4. (D)
5. Define Laptop computer.
6. Why do people choose to use a laptop?
7. How does a netbook differ from a laptop computer?
8. List 2 **A**dvantages and 2 **D**isadvantages of purchasing a notebook or netbook.
	1. (A)
	2. (A)
	3. (D)
	4. (D)
9. Define tablet.
10. List 3 things people use a tablet for.
11. List 2 **A**dvantages and 2 **D**isadvantages of purchasing a tablet.
	1. (A)
	2. (A)
	3. (D)
	4. (D)
12. Define Mobile Device.
13. List 2 **A**dvantages and 2 **D**isadvantages of purchasing mobile devices.
	1. (A)
	2. (A)
	3. (D)
	4. (D)
14. Define Server.
15. Give an example of where servers are used today.
16. Define Mainframe.
17. Mainframes can process large volumes of data and .
18. List 3 types of companies that use Mainframes **and what the companies use mainframes for.**
19. Define Supercomputer.
20. List 5 things Supercomputers are used for.
21. List 2 **A**dvantages and 2 **D**isadvantages of supercomputers.
	1. (A)
	2. (A)
	3. (D)
	4. (D)

**Slide 19 - Go to** **EdPuzzle view the video titled “Supercomputer” and answer the questions that are posted.**

1. The first machine referred to as a “supercomputer” was the IBM Naval Ordinance Research Calculator which operated at Columbia University from 1954 to 1963. It could perform calculations at a rate of about operations per second.
2. An average desktop computer today runs over times faster at a rate of

 operations per second.

1. What does FLOP stand for?
2. The Roadrunner was the first supercomputer to run at a sustained speed of Petaflops.
3. Gigaflop means calculations per second.
4. Exaflop means calculations per second.

**Slide 20 – “What is a Flop?” video is posted on EdPuzzle with questions. EdPuzzle questions / answers are for questions #28 to #33**

**Wearable Technology**

1. Define wearable computer.
2. What are 2 advantages of wearable computers?

**Watch the EdPuzzle video “New Wearable Technology Inventions and Gadgets”. Answer the EdPuzzle questions.**

**Embedded Computer Chips / Internet of Things**

1. An Embedded Computer is a single chip that contains all of the for any computer including:
2. List 4 items that we use every day that have computers embedded in them.
	1.
	2.

**Watch and answer the questions on the video “7 Amazing Technologies that we’ll see by 2030” posted on EdPuzzle.**