

IT Essentials 5.0

1.3.1.6 Worksheet - Build a Specialized Computer System

Print and complete this worksheet.

In this worksheet, you will use the Internet, a newspaper, or a local store to gather information about building a specialized computer system that supports hardware and software that allows a user to perform tasks that an off-the-shelf system cannot perform. Be prepared to discuss your selections.

For this worksheet, assume the customer's system will be compatible with the parts you order.

1. The customer runs an audio and video editing workstation to record music, create music CDs, CD labels, and to create home movies. The customer wishes to upgrade the components listed in the table.

| Brand and Model Number | Features | Cost |
|------------------------|----------|------|
| Audio card | | |
| Video card | | |
| Hard drive | | |
| Dual monitors | | |

Provide reasons for the components purchased. How will they support the customer's needs?

2. The customer runs computer-aided design (CAD) or computer-aided manufacturing (CAM) software and wishes to upgrade the components listed in the table.

| Brand and Model Number | Features | Cost |
|------------------------|----------|------|
| CPU | | |
| Video card | | |
| RAM | | |

Provide reasons for the components purchased. How will they support the customer's needs?

3. The customer uses virtualization technologies to run several different operating systems to test software compatibility. The customer wishes to upgrade the components listed in the table.

| Brand and Model Number | Features | Cost |
|------------------------|----------|------|
| RAM | | |
| CPU | | |

Provide reasons for the components purchased. How will they support the customer's needs?

4. The customer wishes to upgrade a home theater Personal Computer with the components listed in the table.

| Brand and Model Number | Features | Cost |
|--------------------------|----------|------|
| Case | | |
| Power supply | | |
| Surround sound audio | | |
| TV tuner and cable cards | | |

Provide reasons for the components purchased. How will they support the customer's needs?

5. The customer wishes to upgrade a gaming computer with the components listed in the table.

| Brand and Model Number | Features | Cost |
|------------------------|----------|------|
| CPU | | |
| Video card | | |
| Sound card | | |
| Cooling system | | |
| RAM | | |
| Hard drive | | |

Provide reasons for the components purchased. How will they support the customer's needs?