

IT Essentials 5.0

1.2.1.11 Worksheet - Research Computer Components

Print and complete this worksheet.

In this worksheet, you will use the Internet, a newspaper, or a local store to gather information about the components you will need to complete your customer's computer. Information is provided for the components that your customer already has. Use these specifications to make sure that the components you research are compatible with the components your customer already owns. Be prepared to discuss your selections.

1. List three components that must have the same compatible form factor.
2. List three components that must conform to the same socket type.
3. List two components that must utilize the same front side bus speed.
4. List three considerations when you choose memory.
5. What component must be compatible with every other component of the computer?
6. Your customer already owns the **case** described in the table below.

Brand and Model Number	Features	Cost
Cooler Master HAF-932	EATX Mid Tower ATX, Micro-ATX compatible form factor 7 External 5.25" drive bays 2 External 3.5" drive bays 5 Internal 3.5" drive bays 7 expansion slots USB3.0, firewire, eSata	

7. Your customer already owns the **motherboard** described in the table below.

Brand and Model Number	Features	Cost
GIGABYTE Z77X-UD3H	LGA 1155 DDR3 2666/1600/1333/1066 3 x PCI express x 16 3 x PCI express x 1 1 x PCI 2 x SATA 6.0Gb/s interfaces 4 x SATA 3.0Gb/s interfaces 1.5V RAM voltage 1066/800/533MHz front side bus 4 memory slots Dual channel memory supported ATA100 connector RAID 0/1/5/10 6 USB 3.0/2.0 ports ATX form factor	

8. Your customer already owns the **hard disk drive** described in the table below.

Brand and Model Number	Features	Cost
Seagate ST2000DM001	2 TB 7200 RPM 64 MB cache SATA 3.0Gb/s interface	

9. Search the Internet, a newspaper, or a local store to research a **power supply** compatible with the components that your customer owns. Enter the specifications in the table below.

Brand and Model Number	Features	Cost

10. Search the Internet, a newspaper, or a local store to research a **CPU** compatible with the components that your customer owns. Enter the specifications in the table below.

Brand and Model Number	Features	Cost

11. Search the Internet, a newspaper, or a local store to research a **cooling device** compatible with the components that your customer owns. Enter the specifications in the table below.

Brand and Model Number	Features	Cost

12. Search the Internet, a newspaper, or a local store to research **RAM** compatible with the components that your customer owns. Enter the specifications in the table below.

Brand and Model Number	Features	Cost

13. Search the Internet, a newspaper, or a local store to research a **video adapter card** compatible with the components that your customer owns. Enter the specifications in the table below.

Brand and Model Number	Features	Cost