

Unit 1 Overview

Hardware

- Motherboard (Built in: Audio, Network, ?Graphics?, I/O ports)
- RAM
- Storage (HDD / SSD)
- CPU
- GPU / Video Card
- Power Supply
- Extras: Cooler, Fans, etc
- Case / Chassis
- Optical Drive

Storage Capacities & The metric scale

- How many 720kB floppies would it take to fill a 32GB SD card?

Input / Output?

Scenarios = best computer for given use

Binary

- Converting TO binary
- Converting FROM binary
- Practice crafting a simple message

Networking & Internet

- How did the internet begin?
- What happened in the early 90s?
- DNS / IP networking
- Internet vs. WWW
- LAN / WAN

Software

- Operating systems!
 - o Different kinds
 - o Main features?
 - o Linux (Why so many versions but they are all linux?)
- Drivers

Malware

- 6 different kinds
- Preventing
- Typical function
- Removal
- Spam / Hoaxes

Computer Prevention Strategies

- Backup

- Antivirus
- Firewall
- Protect your power (UPS /surge protector)

Computer Maintenance Strategies

- Defrag / Scandisk
- Be sure to keep free space
- Check startup programs

Computer Security (passwords)