



Secondary Storage

BONNE TERRE PREPARATORY HIGH SCHOOL

GRADE 7

Secondary Storage Devices

- ▶ Secondary storage is needed to store data and information on a permanent basis for later use.
- ▶ Some Secondary Storage Devices are:
 - Hard disk/drive
 - USB Flash Drives
 - Memory Cards
 - Network/Cloud Storage
 - Optical Disks

Hard Disk/ Drive

- ▶ **Hard disks** are rigid, inflexible disks made of highly polished metal. They can contain a single disk or two or more disks stacked on a single spindle.
- ▶ **Hard disks (hard drives)** are **used** to store large amounts of data in PCs, laptops and other digital systems. The main **hard disk** in a PC system is where the operating system, executable programs and files are stored.

Hard Disk/ Drive



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<https://kids.kiddle.co/Image:HardDiskAnatomy.jpg>

USB Flash Drives

- ▶ A **USB flash drive** (USB stands for *Universal Serial Bus*) is a popular way to store digital information.
- ▶ Flash drives are an easy way to share data (information). They are called "Flash drive" because they use flash memory to store files. Flash memory is a type of computer chip.
- ▶ A USB flash drive can be attached to a USB port, and provides a certain amount of storage space, which can be used to store data.
- ▶ USB flash drives are used with devices found in homes, workplaces and schools. Below are some examples of these devices:
 - Computers
 - DVD players
 - Video Game consoles
 - Music players
 - Digital Picture Frames

USB Flash Drives

- ▶ Other common names for a flash drive include: **memory stick**, **flash stick**, **keydrive**, **pendrive**, **thumbdrive** and **jumpdrive** or simply **USB**.



Memory Card

- ▶ A memory card is an electronic storage device used for storing digital media, such as photos and videos.
- ▶ In photography, memory cards are commonly used in digital cameras, varying in type, form factor, capacity, speed / class and brand. The most common memory card formats today are SD, microSD, XQD and CFexpress, although CompactFlash was also a very common memory card format for many years.
- ▶ **SD** stands for Secure Digital
- ▶ **microSD** memory cards were born due to SD cards being too big for mobile phones



Network Storage

- ▶ Network-attached storage (NAS) is a file-level (as opposed to block-level) computer data storage server connected to a computer network providing data access to a heterogeneous group of clients.
- ▶ Heterogeneous computing refers to systems that use more than one kind of processor or cores.



Cloud Storage

- ▶ Cloud Storage is technology that allows you to save files in storage, and then access those files via the Cloud.
- ▶ Cloud Storage is simply a new way of storing files and other digital content.
- ▶ It allows users to access the files wherever there is Internet access.
- ▶ Any service, including storage, available over the Internet, is called Cloud service. If you use GMAIL it is email in the Cloud, if you use an Amazon MP3 player, that's music in the Cloud.

