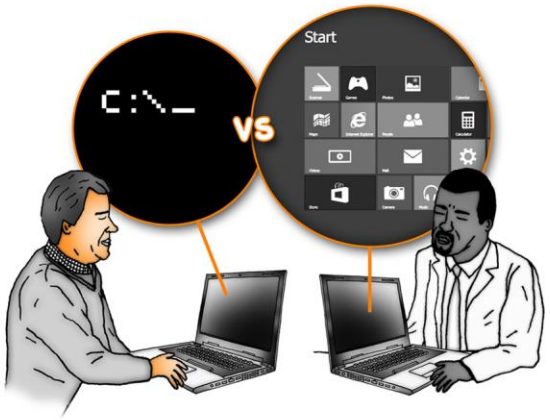

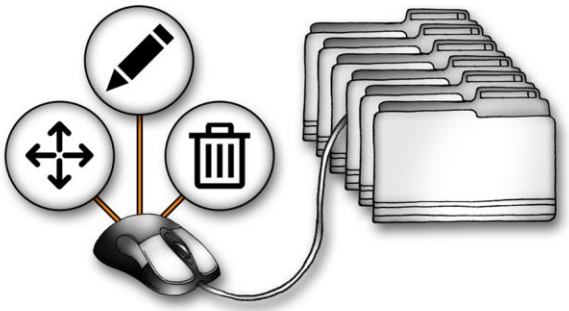

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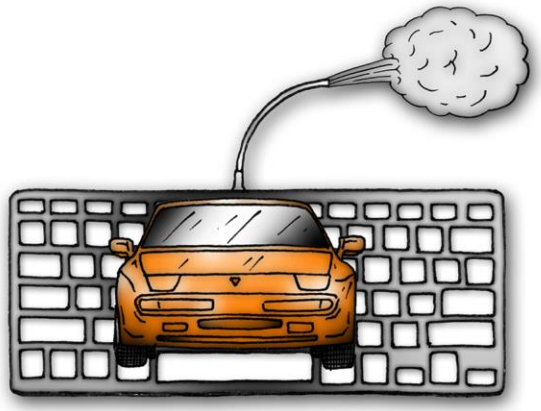

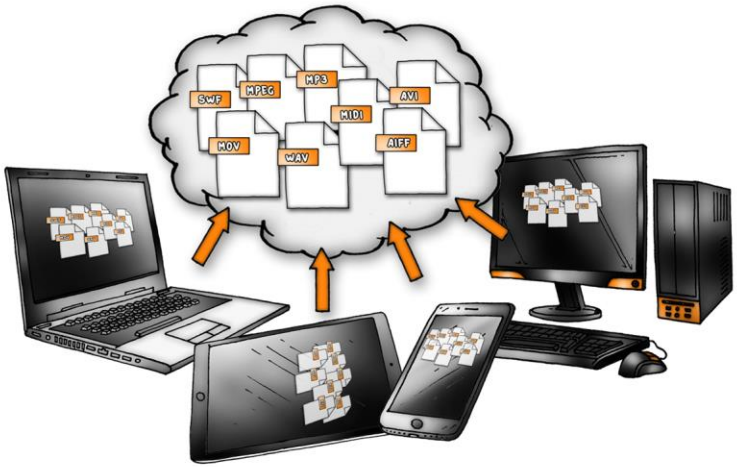

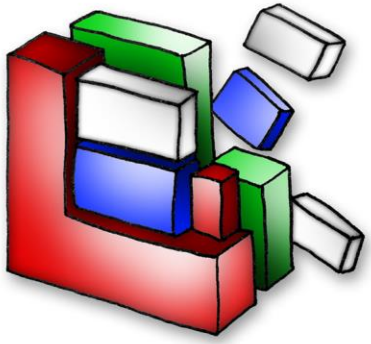

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Operating System- User management

- Describe the difference between a single-user and a multi-user Operating System
- What anti-theft measures can be put in place to protect user accounts?
- Parents can edit the user access controls of their devices to ensure their children are protected, what settings may they wish to change?
- Give an other example when you may need different user access controls for users on the same computer.

Operating System- User Interfaces

- Compare the interface of two Operating Systems
- Identify the features of a GUI
- Identify the features of a CLI
- Explain the relationship between an application and the operating system
- Examine why a CLI would be used by a technician
- Why would a CLI not suitable for ever day users?

Operating System- Multi-tasking

- Discuss the statement "It seems like programs are being processed by the OS at the same time but they are not"
- Explain how the Operating System works with the CPU
- The process of scheduling is very important during Multi-tasking, how does scheduling work?
- How is Virtual Memory used during Multi-tasking?

Operating System- File Management

- How does the Operating System manage the hard disk?
- The Operating System works with Utility Software to manage the files, list examples of Utility Software used for File Management
- Files have extensions such as .pptx, why do files need file extensions?
- Storage is using organised into a hierarchical structure, is this for the Operating System or the user?

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Operating System- Peripheral management and drivers

- How does the Operating System communicate with peripherals?
- Why are device drivers essential for a Computer System?
- When a technician replaces a peripheral such as a Keyboard what must happen before the device will work?
- It is important device drivers are updated, why may device driver need to be updated?

Utility Software- Backups

- Why are backups necessary?
- Explain the difference between a Full backup and a Incremental backup
- Businesses such as a bank may wish to carry out both Full and Incremental backups, when are they likely do carry out a Full backup and an Incremental backup?
- Compare the advantages and disadvantages of Full backups and Incremental backups.

Utility Software- Compression

- Streaming media online has become increasingly popular, why is compression important when streaming?
- Explain the difference between Lossy and Lossless compression.
- What must you do with a compressed file before it can be used?

Utility Software- Defragmentation

- Explain how defragmentation software organises data
- Files are stored on the hard disk in available spaces, how can files become fragmented?
- What is the ideal way the files could be stored on the hard disk?
- Create an image which represents the hard drive before and after defragmentation