

Big Question: What is secondary storage?

S.P.I.R.I.T

- ✓ Independence
- ✓ Perseverance

Monday, 04 April 2022

Learning Intention

To develop knowledge by
Describing what secondary storage
is and Identifying its role in the
computer system

To secure understanding
Identifying different types of
storage devices

To achieve excellence by
Comparing devices in terms of
suitability, durability, portability
and speed.



Tier 2 word:
Retrieval

*The process of getting
something back from
somewhere*

Tier 3 word:
Data capacity

*The amount of data
that can be stored
on a computer or
device*

Secondary Storage

To develop knowledge by Describing what secondary storage is and Identifying its role in the computer system

WJEC Definition: Data is written from memory to secondary storage when data is no longer being actively used, for retrieval at a later time

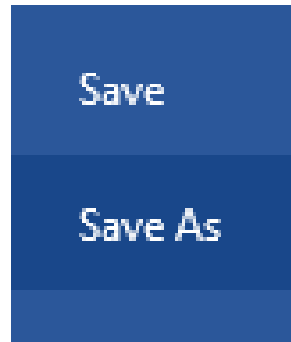
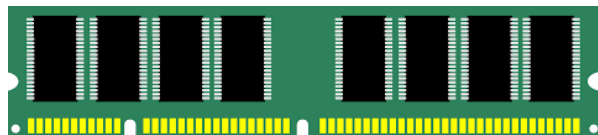
(RAM)

Write that down!

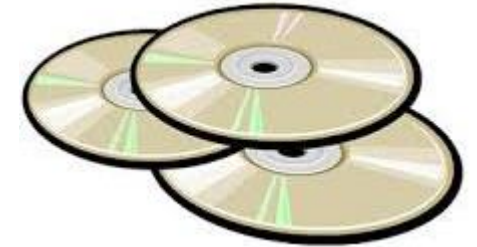
Examples of storage devices:



Data is stored in the RAM whilst the program is currently running



Data is moved from RAM to the secondary storage device to use again later



- When we refer to Storage we should really say “Secondary Storage” or “Backing Storage”.
 - Why?
- **WJEC Definition:** Data is written from memory to secondary storage when data is no longer being actively used, for retrieval at a later time.
- The time a computer takes to access data stored on secondary storage is **longer** than the time taken accessing data from memory (RAM).



Write that down!

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Factors which effect storage devices

Exactly how the data is stored depends on a number of factors such as:

- | | |
|--------------------|---|
| Capacity | - the amount of data to be stored / size of the file |
| Speed | - how quickly the user needs to be able to access the data from the storage device |
| Portability | - whether the data needs to be moved from one place to another such as from home to school |
| Durability | - How long the storage media can reasonably be expected to last. |
| Reliability | - whether the data can always be accessed reliably and in the format in which it was saved. |
| Cost | - how much it costs to store a unit of storage |

Tasks

1. Complete definition of secondary storage
2. Glue in the storage properties handout.
 - Label in own words each property
3. Complete Storage task questions in books

[Help on Secondary storage](#)

[BBC BITESIZE – SECONDARY STORAGE](#)

THINK IT: Exam question

A designer wants to take some drawings home to work on at the weekend. State which type of storage device would be suitable and give reasons why [2]

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Storage Questions

- **Storage Question**

1. What is optical storage?
2. How does optical storage work?
3. List 3 types of optical storage.
4. List 2 types of magnetic storage.
5. What is used to write data to the device?
6. What is used to read data from the device?
7. What is solid state storage?
8. List 2 examples of solid stated storage?
9. What are 2 advantages of solid state storage?
10. Describe cloud storage.
11. What are 2 advantages of cloud storage?
12. What are 2 disadvantages of cloud storage?