# End of Unit Quiz – Unit 1.2 Memory

1. Random access memory **(**RAM) and read only memory (ROM) are different types of memory found in computers.
   1. Give two items that are stored in RAM.

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* 1. What are the main difference is between RAM and ROM?

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* 1. Place a tick (🗸) to indicate whether each statement refers to RAM or ROM.

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|  | **RAM** | **ROM** |
| Data is not permanently written to this type of memory |  |  |
| Holds the instructions for booting-up the computer |  |  |
| The computer needs to be on to retain data |  |  |
| It is a type of volatile memory |  |  |
| Data is pre-written and comes with the computer |  |  |
| Data is permanently written |  |  |

1. A ROM stores instructions that are needed to start/boot up a computer.
   1. What is the role of the Power On Self-Test (POST) in the boot sequence?

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* 1. ROM is present in automatic washing machines. What are some specific instructions that would be in such a ROM?

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* 1. What are the reasons that ROM is considered permanent and secure?

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1. Virtual memory doesn’t physically exist on a memory chip but is an optimisation technique that is implemented by the operating system.
2. What is virtual memory?

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1. Why is virtual memory needed?

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1. How is virtual memory implemented?

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1. Flash memory is sold state media.
2. What does solid state media mean?

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1. What are 3 uses for flash memory?

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1. What are the advantages and problems associated with the use of flash memory?

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