



Province of the
EASTERN CAPE
 EDUCATION

DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)
HOME SCHOOLING SELF-STUDY WORKSHEET

SUBJECT	COMPUTER APPLICATIONS TECHNOLOGY	GRADE	12	DATE	09/04/20
TOPIC	Hardware: Storage devices	TERM 1 REVISION	✓	TERM 2 CONTENT	(Please tick)
TIME ALLOCATION	60 Minutes	<u>TIPS TO KEEP HEALTHY</u>			
INSTRUCTIONS	<ol style="list-style-type: none"> This is a Theory Worksheet: You will need a book to write your answers in and something to write with. Answer the following questions in your workbook. WHERE TO FIND THE ANSWERS: <ul style="list-style-type: none"> You may use your CAT textbook to find the answers or alternatively, you can use the free downloadable CAT textbook provided by the Department of Basic Education. See the link below to download this book. THEORY COMPUTER APPLICATIONS TECHNOLOGY: https://drive.google.com/drive/folders/17mOqPgJ1vHiwcErERV10jnEQgd6xpyj-?usp=sharing With thanks to the Department of Basic Education and the sponsorship of MTN this digital book and exercises are utilized by our CAT Grade 12 learners 	<ol style="list-style-type: none"> WASH YOUR HANDS thoroughly with soap and water for at least 20 seconds. Alternatively, use hand sanitizer with an alcohol content of at least 60%. PRACTICE SOCIAL DISTANCING – keep a distance of 1m away from other people. PRACTISE GOOD RESPIRATORY HYGIENE: cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use. TRY NOT TO TOUCH YOUR FACE. The virus can be transferred from your hands to your nose, mouth and eyes. It can then enter your body and make you sick. STAY AT HOME. 			



Activity 2.4

1. Write down the correct answer for each of the following questions.
 - a. What current technology is replacing the DVD?
 - A. Flash disk
 - B. HDD
 - C. Blu-ray
 - D. CD
 - b. What is the average capacity of a DVD?
 - A. 700 Mb
 - B. 125 Gb
 - C. 4.9 Gb
 - D. 4.7 Gb
 - c. Which of the following is NOT a storage device?
 - A. HDD
 - B. RAM
 - C. SSD
 - D. USB stick
 - d. Which one is an internal hard drive's average rotational speed?
 - A. 3 600 rpm
 - B. 7 200 rps
 - C. 7 200 rpm
 - D. 8 400 rps
 - e. Which of the following is a limitation of an internal hard drive?
 - A. Data can be retrieved and saved much faster than from DVDs or CDs
 - B. Lacks portability, as they are fixed inside the computer
 - C. Permanent storage of data
 - D. Large capacity of storage space
 - f. Which of the following is a limitation of an external hard drive?
 - A. Large capacity of storage space
 - B. Lacks portability, as they are fixed inside the computer
 - C. Slightly slower than an internal hard drive
 - D. Slightly more storage space than an internal hard drive
 - g. Which of the following is an advantage of SSDs?
 - A. More durable and compact due to absence of mechanical parts
 - B. Longer life span than standard hard drives or flash drives
 - C. Less expensive than standard mechanical hard drives
 - D. Increased storage capacity due to high cost per gigabyte

- h. Which of the following is an advantage of flash drives?
- A. Low cost per gigabyte
 - B. Does not require a power source to be used
 - C. Difficult to lose due to physical size
 - D. Longer life span, as the flash memory in the drive can be used an infinite number of times
- i. Which of the following is an advantage of optical drives?
- A. Data transfer and access rate is higher than either hard drive or flash drive
 - B. To reuse the same disc requires special rewritable CDs and DVDs, which are less expensive
 - C. Discs are robust and cannot easily be lost or damaged
 - D. Certain CDs and DVDs can be used multiple times
- j. Which of the following is NOT an advantage of cloud storage?
- A. Accessibility
 - B. Reliability
 - C. Control
 - D. Disaster recovery
2. Choose a term or concept from Column B that matches the description in Column A. Write only the letter next to the question number.

COLUMN A	COLUMN B
2.1 Primary computer storage	A. Storage device
2.2 Device most suited for backing up data	B. Optical discs
2.3 Storage medium that can easily be scratched or damaged	C. Internal HDD
2.4 Storage accessible anywhere in the world as long as there is internet	D. Cloud storage
2.5 Personally transferring a smaller amount of data between computers	E. External HDD
	F. SSD
	G. Flash disk

3. Say if the following statements are TRUE or FALSE. Correct the underlined word(s) if it is false.
 - a. Another name for a flash disk is a thumb drive.
 - b. A flash drive is the least robust storage device.
 - c. An internal hard drive has the highest storage capacity.
 - d. A hard drive has a shorter life span than an SSD.
 - e. Cloud storage is for free for a specific amount.
4. Answer the following questions:
 - a. What is the difference between an internal and an external hard drive?
 - b. What is the difference between an HDD and an SSD?
 - c. How would you explain cloud storage to a Grade 10 CAT learner?
 - d. What five points must you take into consideration when choosing a storage device?
Explain these points briefly.
5. Read through and understand the following scenarios to provide an appropriate solution:
 - a. Your parents gave you R1 500 to buy a storage device for your computer. Explain the factors involved in your decision to either buy a hard drive or an SSD. State your choice at the end.
 - b. Your uncle wants to open up a store that sells music CDs and DVDs, as well as clean CDs. Give him advice on the relevancy and future of CDs and DVDs. Give your opinion on whether or not it will be wise to open such a store and state why.