

SUBJECT AND GRADE	Computer Applications Technology Grade 12	
TERM AND WEEK	Term 1 Week 1	
TOPIC	System Technologies: General Concepts	
AIMS OF LESSON	An introduction to general concepts of system technologies.	
RESOURCES	Paper-based resources	Digital resources
	Gr 12 DBE Textbook (p 1 – 11) Any suitable Textbook or notes used in your school for CAT. Previous NSC question papers.	Types of computers: https://www.youtube.com/watch?v=7qOF5ffTDI8
INTRODUCTION	A computer is an electronic device, operating under the control of instructions stored in its own memory that can accept data (input), process the data according to specified rules, produce information (output), and store the information for future use. Any kind of computer consists of hardware and software. https://www.just.edu.jo/~mqais/CIS99/PDF/Ch.01_Introduction_%20to_computers.pdf	
CONCEPTS AND SKILLS	<p>Knowledge of the following concepts is necessary to do the activities that follow:</p> <p>Different types of computers and users:</p> <ul style="list-style-type: none"> • Personal Computer (PC) • SOHO (Small Office Home Office) • Mobile users • Power users • Data vs Information vs Knowledge • Conclusion/ decision in Information Management • Convergence 	<p>In preparation for the activities do the following:</p> <ul style="list-style-type: none"> • study the chapters/ pages about these concepts in your textbook or notes. • write a short definition of each of the concepts listed on the left.
ACTIVITIES/ ASSESSMENT	<p>Answer the following questions after you have completed the definitions of the concepts above:</p> <ol style="list-style-type: none"> 1. What is the difference between a personal computer and a workstation? 2.1 Write down at least two more types of computers besides those mentioned above. 2.2 What would be factors one should look at when comparing computers? Write down at least 3. 3.1 What equipment is necessary to set up a small office/home office (SOHO)? 3.2 Write down examples of jobs that would operate form a SOHO. 3.3 What are possible advantages of working form a SOHO? 	

- 3.4 What are possible disadvantages of working from a SOHO?
- 4.1 What is the most popular form of mobile computer at present?
- 4.2 Write down at least 3 tasks a mobile computer can perform.
5. Describe a situation in which a user using a computer would be called a power user?
6. Study the following scenarios:
- A list of names, surnames, birthdates and cell phone numbers is handed to you.
 - The same list is handed to you, sorted chronologically according to birthdays.
 - From the list a conclusion could be drawn about the time of year in which most births took place.
- Indicate next to each bullet above whether the statement refers to information, data or knowledge.
- 7.1 How does information management relate to the practical assessment task done in grade 10 to 12?
- 7.2 What is the importance of drawing a conclusion at the end of a report?
8. Study the picture below and then answer the questions next to it:



- 8.1 What concept does this picture refer to?
- 8.2 Choose 4 pictures surrounding the smart phone and explain their presence (why, what, how?)
- 8.3 Is there any significance in the double-headed arrows in the picture? Explain your answer.

CONSOLIDATION

Watch the following video: https://www.youtube.com/watch?v=-oLlt4whDbg&feature=emb_logo

How has the computer changed our lives, according to the video?

Add some of the benefits you personally experience when using a computer.

Do you think that there are disadvantages associated with the integration of the computer into our lives? Explain.

VALUES

Realisation of the value of computers in our daily lives, but also to acknowledge that there are disadvantages as well.