

ICT Grade 10 - Lesson 01 Cheat Sheet by IdeA (isurudealwis) via cheatography.com/145409/cs/31314/

Data	
What is Data?	The numbers, words, images and symbols which do not bear a meaning, when standing alone are called data.
Two types of Data	Quantitative Data - Measurable Data. (Ex: Age, Price, Height, Weight etc.)
	Qualitative Data - Data that cannot be measured. (Name, Telephone Number, Address etc.)

Processing	
What is Processing?	Converting Data into something meaningful (Information)
Two types of Processing	1. Manual Processing
	2. Electronic Processing

Information	
What is Information?	The Processed Data.
Qualitites of Information	1. Relevant
	2. Complete
	3. Accurate
	4. Timeliness
	5. Cost Effective

Components of a Computer System



Example: Finding the average of 9 subjects.

- 1. Input Data (Marks of 9 subjects)
- 2. *Process* According to the user need. (Get the sum and divide by 9)
- 3. Output Information (Average)

Computer Generations History			Applic	ations of ICT (cont)
Generation	Major Hardware Technology	Software Used	Charactelealth istic	n ICT in diagnosis	CAT Machine - to make 3D images of different parts of
1st	Vacuum Tubes	Machine	High Heat		body. MRI Machine -
Generation 2nd Generation	Transistors	Language High- Level Progra- mming Language	Generation Smaller in Size		creates digitalized images of internal organs of the body by using strong magnetic fields and radio waves
3rd Generation	Integrated Circuits	Operating Systems	Faster Processing		ECG Machine - Uses to monitor heart beat.
4th Generation	(IC) Large Scale IC (LSIC)	OS with Graphical User Interface	Portable		Cardiac Screening Machine - displays the physiology and the movements inside the heart.
5th	Ultra Large	(GUI) Internet	Easy		EEG - record the activities of the brain.
Generation	Scale Integration (ULSI)		Operation	Teleme- dicine	The use of ICT to examine and provide healthcare to a patient who is far away from

Applications of ICT

Telesu- rgery (Remote Surgery)	who is far away from the hospital is called Telemedicine. the ability of a doctor to perform surgery on a patient in consul- tation with a specialist who is far away, using
	ICT.
Medical Teletr- aining	Specialists' consul- tation and training using ICT

e-Gove- rnment	Government to Citizen (G2C)	Ex: Payment of Utility Bills
	Government to Government (G2G)	Ex: Diplomatic & VISA inform- ation
	Government to Business (G2B)	Ex: Payment Services
	Government to Employees (G2E)	Ex: Gazettes, Circulars
Education	In the classroom	Ex: Presentations, Experimental Videos, Online Information collection etc.
	Serves as a teaching aid	Ex: Making presentations, organize lessons using a computer etc.
	Learning Management System (LMS)	Ex: Online Assignments (for students), Online lessons (for teachers)
	Distance Learning	Ex: Digital Library Facility, Web Based Teaching etc.

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Application	ns of ICT - 2		
Agricu- Itural Industry	Meteorological Devices		
	Automated Insect Control Device		
	Field cond devices	Field conditions measuring devices	
	Crop harve	esting using Robots	
Manufa- cturing Industry & Business	Using Robots - 24 hour service, Never get tired, Efficiency, Accuracy, Hygiene		
	Video Con	ferencing	
	Human Re	esource Management	
	e- Banking System	ability to withdraw cash anytime using ATMs	
		inter banking or transactional activities.	
		pay utility bills, inter-banking transactions, or checking the account balance using mobile phones.	
	Online	Open 24 hours a	

Application	ons of ICT - 2 (cont)
	able to see things and order at one's convenient place.
	ability to pay using the electronic payment methods
	home delivery of goods. (Saving Transport cost and time)
Entert- ainment	Digital Photograhy
	Social Network
	Watching Movies
	e-news & e-books

Demerits of ICT

Addiction

Building unsuitable friendships through social media

Computers could become infected by virus due to improper use of internet.

Negative effects on psychology of a person by visiting improper websites.

Publishing of edited photographs and videos of individuals affecting their personal lives.

Evolution of the Computer		
Blaise Pascal	The Adding Machine	
Charles Babbage	Analytical Engine	
Ada Lovelace	First Programmer	
Howard Aiken	MARK I	

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Shopping