

## Instructional Technology

Chapter (1) Lecture  
by  
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## Curriculum Specific Learning

- Teachers perform Professional Development!
  - Teachers use Technology as Production!
  - Teachers involve Students with Technology!
  - ITDM in Teaching, Learning, Assessment!
- Fig 1-1 compare T. L. E. to C. L. E.!

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## Relevant Literacy for Education

- Information: Locate, Analyze, Use Info
- Computer: Know & Use of PCs **and** Uses •
- Integration: Use PCs & Tech's **with** T&L
- enGauge: Digital Age Literacies
- Noodle Tools: 21<sup>st</sup> Century Literacies

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## What is a PC ?

- Electronic Device/Instructions/P. C.  
IPC: Acept, Process, Produce, Sore
- A (PC) basically: Calculate & Logic
- Data (Unorg) Facts / Information (Org) Facts
- **Pg 4:** Information Processing Cycle

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## Evolution of PC & DM

- Telegraph, Telephone, Radio, Tele<sup>.</sup>vision  
Early Computers vs Personal Computers
- **Advances:** Audio/Video/Images/WWW
- Today is Age of Convergence All Interactive!  
DM & PC Devices illustrated in **Fig 1-4**

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## Digital Age & Kids

- Who are Digital Kids? How do they Learn?  
Previous Students vs Digital Students
- **Fig 1-5** compares Past **to** Present Students!  
→ Digital SW & HW greatly used today!
- **Fig 1-6** Digital Kids **to** Non-Digital Teachers

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## ARCS Motivational Model

- Attention to engaging Multi-Tasks
- Relevance to Inquiry Learning
- Challenging to achieve Confidence
- Success for Personal Satisfaction
- Summary Chart for ARCS: Fig 1-7

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## Computer Categories

- Personal Computers (PCs) **Chapter 4**
- Mobile Computers & Devices
- Servers (Single & Multiple) Functions
- Super Computers & Embedded Computers
- Definitions & Images Pages: 10 - 13

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## Why is PC so Powerful?

- Speed ( Chip & Internally & Externally )
- Reliability (Very few Failures)
- Accuracy (Relatively No Errors)
- Storage ( Internal & External )
- Communications ( Intranet & Internet )

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## Computer (PC) Software

- System ( Operating & Utility ) **Chapter 3**
- Application Software: P, MM, C, WWW
- Packaged (MSO) & Custom Software
- Open Source Software (Wikipedia)
- Shareware/Freeware/Public Domain

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## Networks and Internet

- Collection of Computers & Devices
- Local Area Network (LAN) Defn & Exps
- Wide Area Network (WAN) Defn & Exps
- Intranet vs Internet (WWW)  
**Much more detail in Chapter 2!**

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## Technology in Education

- Teachers have responsibility to Society
  - Teaching & Learning with Technology
  - Parents do not urge **but** insist on Technology
  - Technology enhances Teaching & Learning
- Compare Information: Internet **to** Textbooks

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## Professional Organizations

- [ISTE](#) (International Society for Tech in Ed)
- [NETS-T](#) (Teachers) [Pg 22](#) & [Fig 1- 25](#)
- [NETS-S](#) (Students)
- [TSSA](#) (Tech Stds for School Administrators)
- [NCATE](#) (Accreditation) [Pg 21](#)

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## Education Organizations

- [NEA](#) (National Education Association) •
- [OEA](#) (Ohio Education Association)
- [ECOEA](#) (East Central OEA)
- [CPEA](#) (Canton Professional Ed Association)
- [Ohio School Net \(+\)](#) & [eTech Ohio](#)  
( [Critical Orgs](#) for [Ohio Teachers](#) )

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## Reference Sources

- [OneLook](#) Dictionary & Reverse •
- [Wikipedia](#) & [LtoK](#) Encyclopedias •
- [TechWords](#) & [TechLingo](#) Dictionary •
- [WorldLingo](#) & [Langenberg](#) Translators •
- [Library Tools](#) & [Internet Tools](#)

Reference Sources: [www.itws.org](http://www.itws.org)

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PP Handout

Conclusion

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