

EDUCATIONAL TECHNOLOGY 1

Tuesday, August 2, 2016

Lesson 1: MEANING OF EDUCATIONAL TECHNOLOGY

According to a research, people tend to remember:

- 10% of what they read
- 20% of what they hear
- 30% of what they see
- 50% of what they hear and see
- 70-90% of what they see, hear and experience

EDUCATIONAL TECHNOLOGY

- is the application of technology in the educative process that takes place in education institutions.

Technology in Education

- is the application of technology in the operation of education institution.

Instructional Technology

- it refers to aspects of educational technology that are concerned with instructions.

Technology Integration

- is using learning technologies to introduce, supplement and extend skills.

BENEFITS FROM USING EDUCATIONAL TECHNOLOGY

1. Increase the quality of learning and the degree of its mastery through the use of special effects of unique programming that are considered individualized, valid and accessible.
2. Decrease the time spent in instruction for learners to achieved desired learning objectives.
3. Increase efficiency of teachers.
4. Reduce educational cost without affecting quality of instruction.

GUIDELINES IN USING EDUCATIONAL TECHNOLOGY

1. Determine the purpose for which the instructional materials are to be used.
2. Define the objectives to determine the appropriateness of the material.
3. Know the content of the material.
4. Exercise flexibility so that the materials satisfy different purposes.

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AJ Aguilar

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5. Consider diversity/ variety of materials.
6. Relate materials to age, ability, maturity and interests of students.
7. Arrange the conditions so that the materials do not interrupt the momentum of the lesson.
8. Prepare the students for what they will hear, see and do as lessons unfold.
9. Operate equipment needed for efficient use.
10. Summarize experiences gained and follow up with further relevant discussion.
11. Evaluate the results of the use materials together with the instructional process, to determine effectiveness.

Why use media in instruction?

Methods of teaching are instructional techniques that facilitate learning while Media are the means of implementing those methods.

COMMONLY USED MEDIA/ MATERIALS FOR INSTRUCTION

1. Print Media or Materials

- considered to be the most dominant and the primary means of communicating subject matter to students.
- the principal aid to teaching and learning.
- Examples: books, textbooks, periodicals such as (newspapers, magazines, journals, hand outs, manuals)



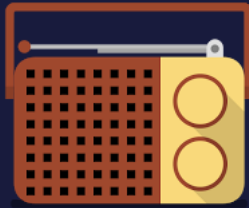
2. Still Pictures and Graphics

- Useful means of expressing ideas; convey lines, patterns, colors and shades to convey information.
- Examples:
 - Pictures
 - Graphics such as maps, diagrams, charts/graphs, tables, posters and cartoons
 - Visual display devices such as chalkboards, whiteboards, magnetic board, bulletin boards.
 - Projection devices such as slide and filmstrip projectors, opaque projectors and overhead projectors.



3. Sound recordings and radio

- Phonograph records
- Audiotapes
- Compact disc
- Radio

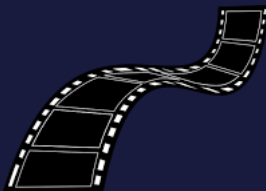


4. Film and Television



5. Video Recording

- Videotapes and discs
- Cables and satellites
- Camcorders



6. Computer Based Learning (CBL)

- Enables the students to study almost anytime and convenient locations and with varying ability level; provides multimedia, interactive instruction, practice and testing that in turn helps teachers further in terms of diagnosis and guidance.

	TRADITIONAL EDUCATION	CBL
INFO TRANSFER	Lecture	Webpage and Links
STUDY MATERIALS	Textbooks and Notes	Downloadable notes
CONCEPTS AUGMENTATION	Problem Solving Exercise	Self- Learning Modules
KNOWLEDGE EVALUATION	Examination	Quizzes and Examination

7. The Web



GENERAL PRINCIPLES/ CRITERIA FOR SELECTION OF INSTRUCTIONAL MATERIALS

1. Appropriates

- materials such catch the general and specific objectives of the lesson; must be appropriate.
 - * difficulty of concepts taught
 - * vocabulary level of students
 - * methods used in teaching
 - * interest of learners

2. Authenticity

- materials must accurate, up-to-date, and reliable information.

3. Interest and appeal to users

- materials must have the power to catch the interest of users, motivate them for learning and stimulate.

4. Organization and balance

- materials must be very clear, well-organized, logically sequenced.

5. Cost Effectiveness/Economy

- materials used must be relative to the cost of other similar materials, their durability and the number of student-users.

6. Breadth

- the scope of materials must suit many different types of learners and learning purposes.

TEN COMMANDMENTS FOR CREATING LEARNING MATERIALS

1. Do not overcrowd.
2. Be consistent in format, layout and convention.
3. Use appropriate typefaces and point uses.
4. Use bold and italics for emphasis, but don't overuse them.
5. Use titles, headings and subheadings to clarify and guide.
6. Use numbers to direct through sequences.
7. Use graphics and illustrations to reinforce ideas.
8. Use symbols and icons as identifying markers.
9. Use color/video/audio/music to stimulate but not to overpower senses.
10. Produce the materials with technical excellence good quality, good audio, clear etc.

Posted by [AJ Aguilar](#) at [9:01 AM](#)



5 comments:



AJ Aguilar ✓ August 11, 2016 at 8:30 PM

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Unknown August 19, 2016 at 8:21 AM

Thanks AJ,this blog helps me a lot.

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AJ Aguilar August 19, 2016 at 8:27 AM

You're welcome! Glad that i could help

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Cien Romero August 19, 2016 at 8:21 AM

Great blog site.Thanks!

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AJ Aguilar August 30, 2016 at 10:35 PM

Thank you!

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