

# Audio Media in Education

## Selection of Audio Materials:

1. Canned– refers to audio materials that are available for download in the internet
2. Production– means that teachers will make or produce their own audio materials.

## Tips in Selecting Audio Materials:

### Canned

- \*Make sure that the content is updated
- \*Make sure it is of good quality
- \*Download Audio files only in legitimate sites.

### Production

- \*Invest in good quality equipments and familiarize on how to operate them
- \*Minimize background noise
- \*Conduct sound checks before recording
- \*Place the microphone in the right position
- \*Stand up while recording and listen to audio playback
- \*Don't adlib, make sure your script is conversational
- \*Relax, don't rush your words

## Application of audio materials in teaching and learning:

- Audio materials can be used as illustrative, supportive material for mass instruction and individualized and group learning
- can be the actual source of instruction and as guide for class activities
- can be a vehicle for class discussions

## Application in specific subjects:

### SCIENCE AND MATHEMATICS

- Include motivational activities like listening to interesting anecdotes and related stories to help the students start thinking and imagining; and can also entice their curiosity to have interest in the subject.
- Animal voice audio can be used in teaching different animal sounds to kindergarten students
- Songs and catchy tunes for Math formulas

## Application in specific subjects:

### HISTORY/ SOCIAL STUDIES

- Use recorded news stories to connect the lesson to the current events happening in the society
- For History and current events classes, integrating the lesson with the actual voice of a national figure would add a whole dimension to the subject
- Use recorded audio material of historical speeches

### English/ Language

- Use songs in teaching foreign language
- Use Skype and Google Talk to let students talk to native speakers to practice communication skills
- Radio drama can be used to assess students' speech capability
- Use recorded dialogues to help students learn proper intonation and pronunciation of words

### MAPEH

- It can be used as mood music in some subjects like arts
- It can be used in rhythmic activities like dancing
- audio is vital in music teaching
- Play music that suits the art lessons to enable students to concentrate and express inner feelings into their works
- Instructional audio can be followed by students to perform an exercise
- Play music with a beat that the students can follow while moving rhythmically (e.g. exercise,

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## S P E A K E R S

Ambulo, Coley  
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# INSTRUCTIONAL MEDIA RESOURCES

# AUDIO MEDIA



## Definition and Properties

## Formats

## Advantages & Disadvantages

## Application in Education

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# Audio Media

## Definition & Properties

### What is Audio?

**A**udio is a sound within the acoustic range available to humans. In computers, audio is the sound system that comes with or can be added to the computer.

### Audio Media

Audio media refers to the various means that can make human voice and other sounds into more powerful forms of information, communication and education.

### Audio properties

Volume – loudness or softness of sound  
Pitch – highness or lowness of tone  
Duration – length of time of the sound  
Speed – rate of the pacing of sounds

### Hearing & Listening

*Hearing is a physiological process*

Sound waves enter the outer ear and are transmitted to the eardrum, converted into mechanical vibrations in the middle ear, and changed in the inner ear into electrical impulses that travel to the brain.

*Listening is a psychological process*

Receiving – someone's awareness of and attention to sounds or speech patterns

Decoding – identification and recognition of specific auditory signals

Destination – comprehension

## Audio Formats

### Analog (traditional)

- where a property or characteristic of a physical recording medium is made to vary in a manner analogous to the variations in air pressure of the original sound.
- Examples: Vinyl records, Cassette/Audio Tapes, Radio

### Digital (modern)

- produced by converting the physical properties of the original sound into a sequence of numbers, which can then be stored and read back for reproduction.

Examples: Compact Discs (CDs), DVD Audio Portable Media Players and Audio Books

### Digital Audio Formats:

1. .WAV
2. .mp3 (MPEG-Layer 3)
3. .AIFF (for Macintosh)
4. .AAC ('Advance Audio Coding')
5. .AU (for Unix computers)
6. .RA ('Real Audio')
7. .WMA (Windows Media Audio)

### List of Audio Players

1. Microsoft Windows Media Player
2. RealPlayer
3. Winamp
4. Macintosh Players

## Advantages and Disadvantages

### Advantages of Using Audio Media as an instructional Material:

- Convenient
- Reproducible
- Portable
- Accessible
- Develops Listening Comprehension Skills

### Disadvantages of Using Audio Media as an instructional Material:

- You have to follow a fixed sequence
- It does not monitor attention
- Difficulty in pacing
- Difficulty in locating segments
- Files can sometimes be large
- Good quality audio can be difficult to produce
- Must have appropriate tools

| Audio Media Tools             | Advantages                                                                                      | Disadvantages                                                                                                                  |
|-------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Audio/ Cassette Tapes</b>  | Easy to use; Economical; Durable; Portable                                                      | Scarcity; Low capacity and sound quality; Difficult navigation                                                                 |
| <b>Compact Discs (CDs)</b>    | Portable; Storage; Resistance to Damage; Easy to locate sections; Economical; Easy to Reproduce | Slow access time; Designed to hold large data for a large number of users                                                      |
| <b>MP3/ WAVE File formats</b> | Accessible; High quality; Economical                                                            | Takes up a lot of space in the hard drive/memory; Audio may skip at some places; Not technically free; Not the highest quality |

#### Resources:

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