


ETEC/613 Instructional Design and Development




Content Presentation and Learner Participation Worksheet

SKILL	Define a synthesizer	#1
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OBJECTIVE
Given a list of definitions, the learner will choose the most accurate definition of a synthesizer.

CONTENT PRESENTATION
Information Presentation
A synthesizer is an electronic instrument used to create a wide array of digitized sounds. With the use of a piano-style keyboard and integrated computer circuit boards, synthesizers are able to use programmed algorithms and frequency modulation to produce digital signals that can be converted to audio waveform for output to speakers or headphones.

Examples

In addition to creating convincing imitations of real acoustic instruments, digital synthesizers are also known to be extremely portable and feature-rich. With its digital ability to perform multi-track recordings, synthesizers can layer various digital sounds and emulated acoustic instruments all within one device.

Non-Examples		
		
Grand Piano	Pipe Organ	Upright Piano

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Pre-Test Embedded

Which statement best defines a synthesizer? A musical keyboard device that

- A. has many foot pedals and multiple rows of black and white keys
- B. uses metal strings that vibrate to make sound
- C. is big, heavy, and difficult to move
- *D. creates digitized sounds that imitate acoustic instruments

Feedback

- A. Incorrect. This more accurately describes a pipe organ.
- B. Incorrect. This more accurately describes any acoustic piano.
- C. Incorrect. This more accurately describes a grand piano.
- D. Correct!

Posttest

A synthesizer is best described as a musical instrument that

- *A. mimic acoustic instruments via the creation of digitized sounds
- B. is not easy to move around
- C. has multiple rows of black and white keys and many foot pedals
- D. makes sound with the use of vibrating metal strings