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Principles for Reducing Extraneous Processing...

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"...extraneous cognitive processing, which is cognitive processing that does not serve the instructional goal and is caused by poor instructional design."

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...caused by confusing instructional design."

I. Coherence Principle

- A. "People learn better when extraneous words, pictures, and sounds are excluded rather than included."

II. Signaling Principle

- A. "People learn better when cues that highlight the organization of essential material are added."

III. Redundancy Principle

- A. "People learn better from graphics and narration than from graphics, narration and on-screen text."

IV. Spatial Contiguity Principle

A. "People learn better when corresponding words and pictures are presented near rather than far from each other..."

V. Temporal Contiguity Principle

A. "People learn better when corresponding words and pictures are presented simultaneously rather than successively."

VI. = 1. reduce confusion re. what to attend to and what to ignore