This poster provides information about the Knowledge Check learning strategy. It presents the results from a study done to determine the Impact of knowledge checks on student learning and perceptions and provides tips on how to effectively integrate knowledge checks into e-learning.

The Knowledge Check Strategy and E-learning



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Tools used to create Knowledge Checks:



Adobe Captivate



Elluminate Live



Adobe Presenter



Techsmith Camtasia

Articulate Presenter What is Knowledge Check (KC)?

Study Overview:

Methods:

Procedures:

Results and Conclusions:

Suggested Guidelines for creating Knowledge Checks: Knowledge checks are questions that can be incorporated into a narrated presentation to serve as a means of directing a learner's attention to critical aspects of the lesson being covered.

To determine if the presence of KCs in narrated presentations would impact student learning and perceptions

The design of the study was simple:

- Independent variable: the presence of KCs
- . Dependent variable: test scores on a post test
- Online course was developed and presented via the Blackboard 9.0
- Course split into 2 groups: Experimental and Control Groups
- The following table provides more details about the study:

	Experimental Group (n=141)	Control Group (n=143)
Nanated Presentation	Yes (with KC questions)	Yes (without KC questions)
Post Test*	Yes	Yers
Survey**	No	Yes

Impact on Learning

- *Test Test upper to decess as serial terraing
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- In general students exposed to KCs performed better on average than those who were not
- No significant impact on learning (p = .061)
- Serves to improve interactivity during a lesson

Student Perception

ADVANTAGES

- . Helps to emphasize key points
- Keeps lectures engaging and interactive
- Serves well as a Self-assessment/Review tool

DISADVANTAGES

- Could prove to be time-consuming and distracting to students during the review of a previously viewed presentation
- Questions should be aligned to the learning objectives of the narrated presentation
- Questions are typically:
 - At the knowledge and comprehension level
 - Multiple choice and un-scored
- Ouestions should not be identical to test questions
- · Detailed feedback should be provided
- Pay attention to question placement place knowledge questions after:
 - A given number of slides
 - . Content topic or learning objective is covered

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