

Teachable Moments: Designing an Emerging Infections Learning Module

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Purpose

To describe the process of **building an online** learning module to support nursing practice competence in response to emerging infections.

Abstract: From Anthrax to Ebola to Zika, headline grabbing infectious diseases have challenged health care and nursing practice in the 21st century. This poster session describes an innovative approach to enhancing competence in the prevention, identification and management of emerging infections.

What are “Emerging Infections”? *Emerging infectious diseases are infections that have **recently** appeared within a population or those whose incidence or geographic range is **rapidly increasing** or threatens to increase in the near future. Emerging infections can be caused by:*

*Previously **undetected** or unknown infectious agents*

*Known agents that have spread to **new** geographic locations or new populations*

*Previously known agents whose role in specific diseases has previously gone **unrecognized**.*

*Re-emergence of agents whose incidence of disease had significantly declined in the past, but whose incidence of disease has **reappeared**.* (

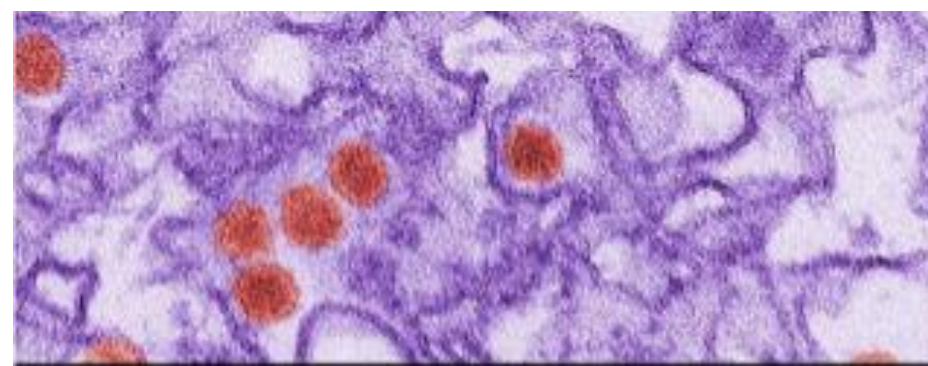
<https://www.bcm.edu/departments/molecular-virology-and-microbiology/emerging-infections-and-biodefense/emerging-infectious-diseases>)

Organizing Format:

1. Determine Learning Outcomes

The Knowledge/Skills/Attitude that are **essential** for the RN in these areas:

Zika Virus



- Prevention
- Breaking the Chain of Transmission
- Pathogenesis
- Identification
- Treatment
- Provider Protection

Ebola Virus



2. Assemble as close to “Real TIME” informational resources:

Center for Disease Control and Prevention: <https://www.cdc.gov/outbreaks/index.html>

<https://www.cdc.gov/ncezid/index.html> works to protect people at home and around the world from emerging and zoonotic infections

<https://wwwnc.cdc.gov/eid> Emerging infections Journal

<https://www.cdc.gov/ncezid/dpei/eip/> The EIP network is a national resource for surveillance, prevention, and control of emerging infectious diseases

<https://www.cdc.gov/niosh/topics/emerginfectediseases/default.html>

Organizing Format (cont.)

3. Using INTERACTIVE, Multi-modal techniques/best practices in distance education,

DESIGN modules by *disease* using the

Principles of:

PRE-training—

CONNECT previous to NEW learning

Guided Activity –

Provide a map for students throughout the learning journey

Reflection—

Points to pause, look for meaning

Pacing—

Move up the scale to topic mastery

Feedback—

validate mastery, correct errors

Types of Interactivity:

Dialoguing:

Learner is asking, answering

Controlling:

Learner regulates the pace or order of the material

Manipulation:

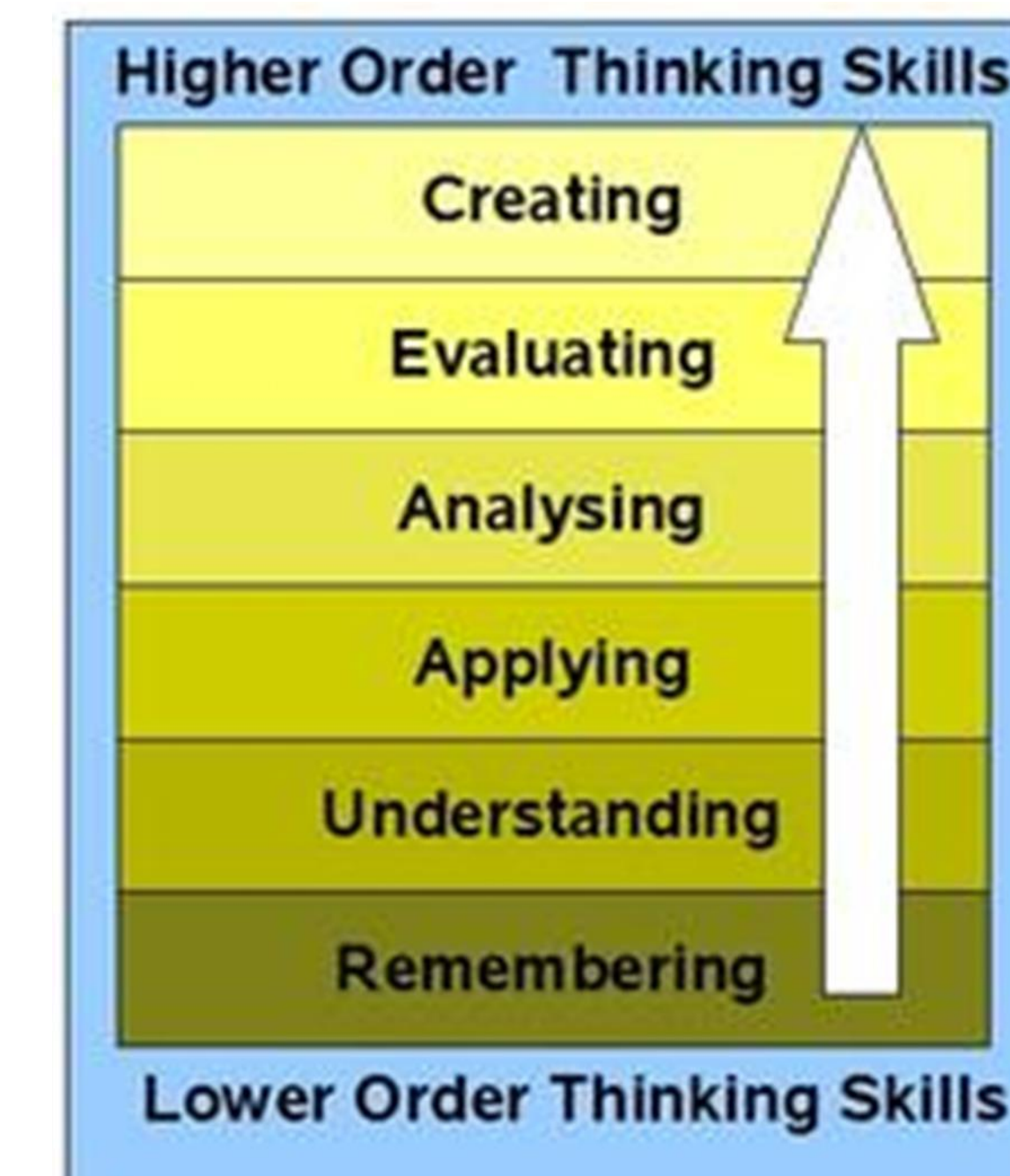
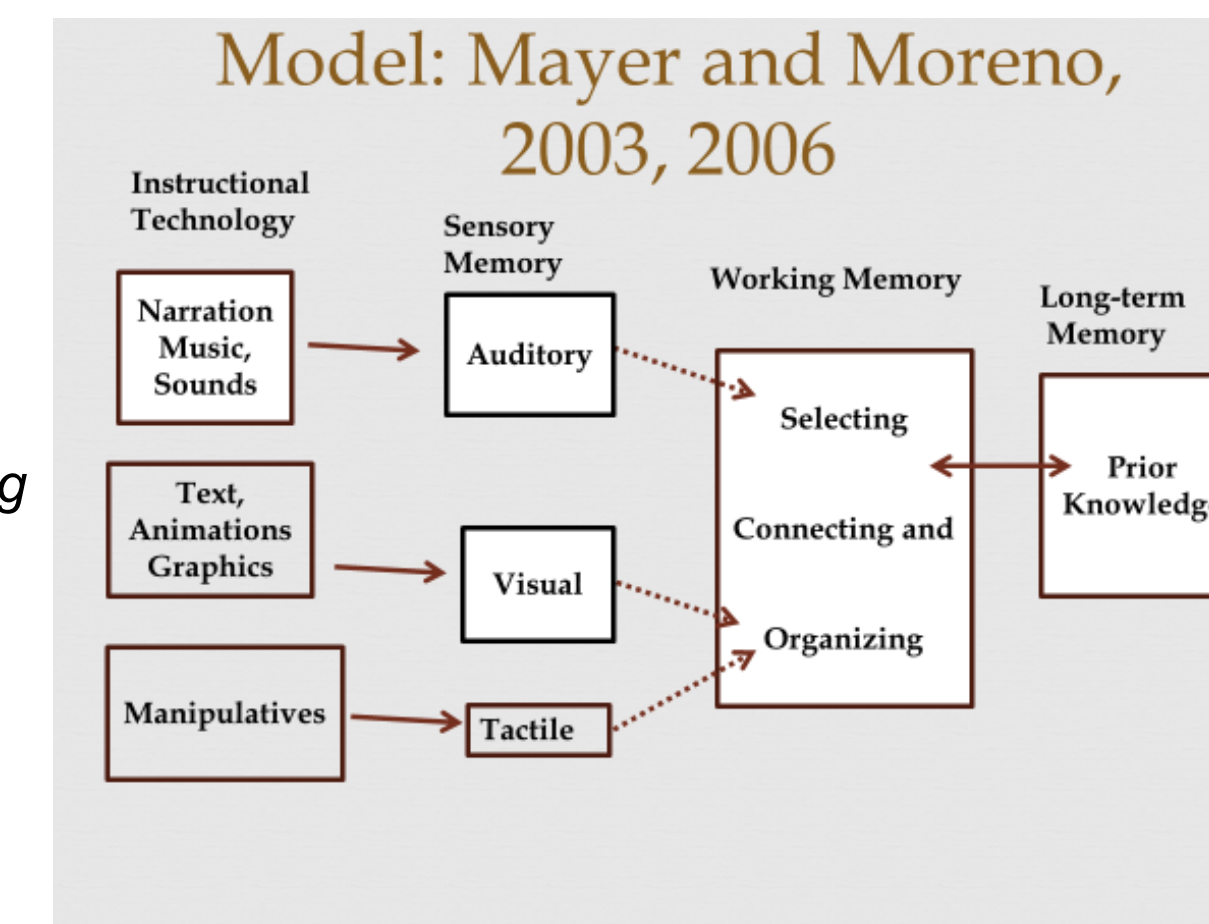
Learner sets limits, moves objects, zooms

Searching:

Learner uses tools to search and select options

Navigating:

Learner moves between information sources



Learning Management System (LMS)

4. Use the capabilities of your LMS to build the learning module with as many REAL TIME resources as will meet your learning outcomes!



Emergencies preparedness, response

Videos: Ebola outbreak response

WHO videos 2014-2015

2015 videos

The Ebola crisis in November 2015, one year after its terrifying peak



One year ago, the West African Ebola outbreak was generating so many new cases, had spread to so many countries that the world was terrified. Many feared that the Ebola virus was the pathogen that would overwhelm humanity. Now, one year later that terror has been replaced by confidence that strong leadership, adaptation of the response to cultures and environments and innovation have turned the tide.

Published November 2015

Training of trainers for at-risk countries on clinical management of Ebola patients



Emerging INFECTIONS!

Due September 26 at 1:00 PM

Starts Sep 12, 2017 1:00 PM Ends Sep 26, 2017 1:00 PM

All Items are MANDATORY content in this learning module.

You must successfully complete each section before proceeding to the next section.

Download Send to Binder

Expand All Collapse All

66.67 % 4 of 6 topics complete

Learning OUTCOMES

In this module you will follow the directions to engage with the content. Once you have reviewed all materials, complete the quiz to proceed to the next module.

Learning Outcomes: The RN student will:

1. Correctly identify prevention strategies, signs/symptoms of the disease, diagnostics and treatment goals.
2. Demonstrate provider protection requirements.

CoronaVIRUS

A picture of the VIRUS

Pre-test: SARS

What do you already KNOW about Ebola?

PREVENTION

CDC page

WHO web page

Prevention Post-TEST

Breaking the CHAIN of TRANSMISSION

Pathogenesis

Identification

Provider Protection

Treatment and Recovery