

### Al Adaptive Accelerated Curriculum Development & Student Engagement

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**PROFESSOR** 

3D DIGITAL DESIGN, RIT

### Make a CHEEZY

song About the lecture/workshop

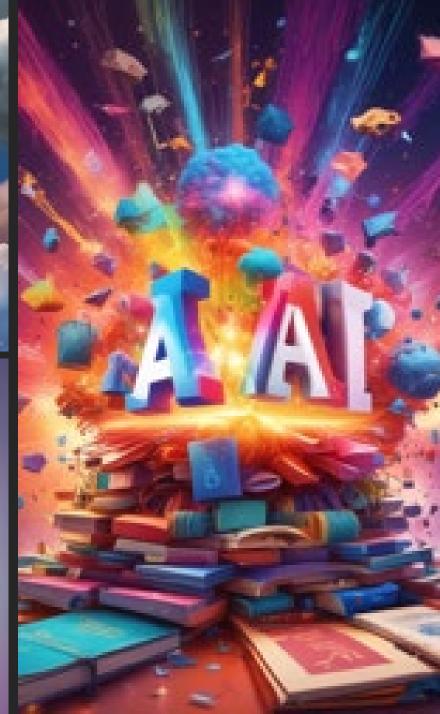
**Choral Version** 

ChatGPT (in lab activities)









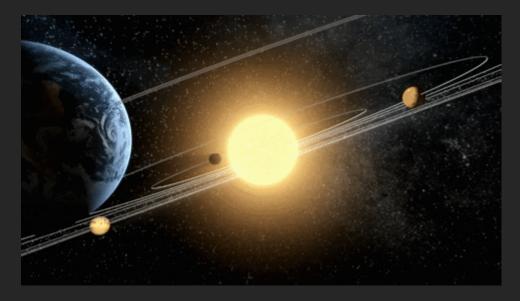


### Overview

Need for Accelerated Curriculum Development

**Increasing Student Engagement** 

Al Curriculum Development

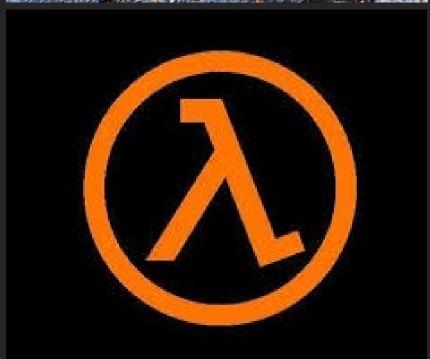




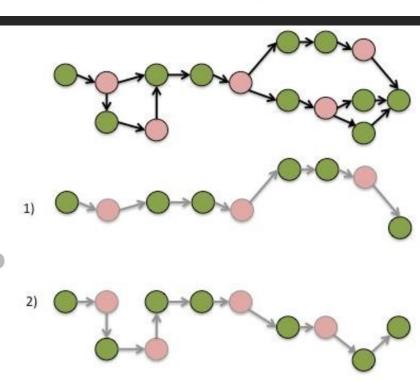
Why Accelerated Curriculum Development

½ Life of Knowledge
Higher Ed: Value
Proposition
Multiple Choice
Learning Paths
Future Adaptive
Curriculum











### 3D Digital Design: 3 Class Types:

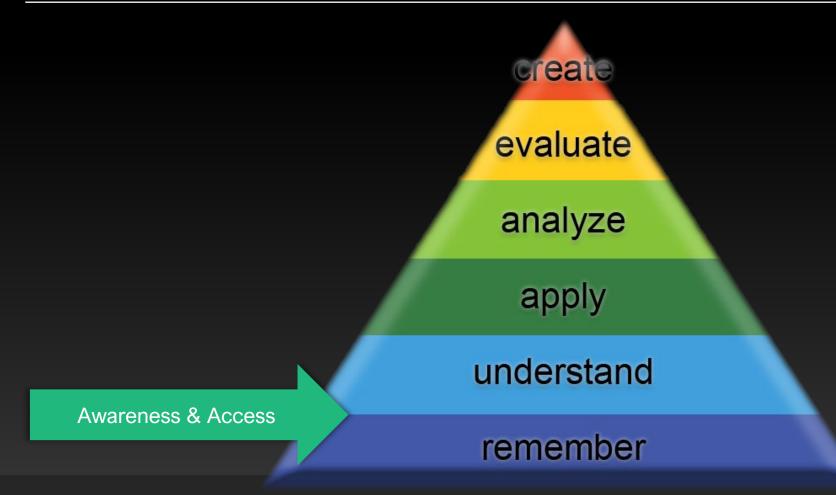
Foundational

Transitional

Advanced / EDW combo



### Blooms Taxonomy is changing:





### Al: "Higher order" learning transition

More creation & Iteration

Shape probably not inverted triangle: (Broader Base)

create

evaluate

analyze

apply

understand

remember





### 8 Al Engagement Steps

- 1. Review Background Knowledge: Before diving into new material, review key vocabulary terms and concepts. connect to previously covered material
- 2. Take Discussion (and other) Breaks: are important They allow students to process information and maintain focus. (*Discuss* Al and sense of "Time")

### 8 Al Engagement Steps

3. Check In: Use questions, polls, or quizzes to gauge comprehension.

Customize to students (shown in curriculum development)

\* Have students semi-implement for themselves



**4. Slow It Down: Al <u>Scaffold</u>**. Quality matters more than quantity<sup>1</sup>. Support with "expansion and reinforcement". Knowledge type (foundational) vs (advanced/changing)



### 8 Al Engagement Steps

5. Record Elements with AI: (with GetOtter)

Adding new Media may throw things out of *balance* 

Leading to some *issues* 

**6. Visual Aids**: images and graphics. Avoid text-heavy slides; GIPHY





### 8 Al Engagement Steps

7. Engagement with Students & Importance of Material

**Discussion** | **Activities** | **Cross Media Connection** 

8. Be Yourself: Authenticity matters. Be genuine and passionate about the subject. Enthusiasm to inspire and create a positive learning environment<sup>1</sup>.



### Engagement Example:

From: Cinematography / Previz Class

**Lens Types** 

17mm



50mm

28mm



85mm

# Lens Effect on Depth



## Lens Effect on Depth

With AI: Have AI generate a picture with 3 types of lenses





### Strong Visuals

"Show vs Tell" (previous slide)

Ideas for visuals that will prompt discussion

Illustrate a concept STUDENTS generate

Illustrations







## Lens Effect on Depth

With Al: Have Al generate a picture with 3 types of lenses

please give me three of the exact same image of a city at the golden hour, with each image use a different lens; 20mm, 50mm, and 100mm



### Engagement Examples: ChatGPT please give me:

Teach Students how to learn with Al:

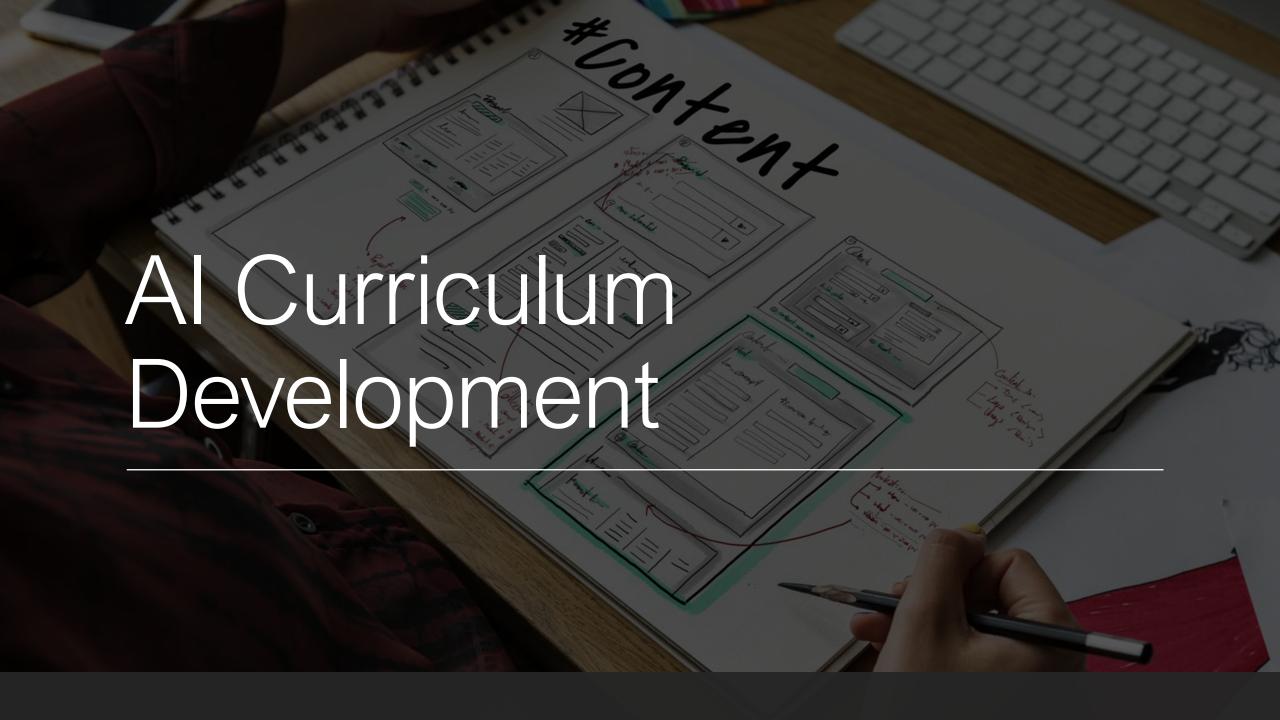
- Don't jump in too quickly with Al
- X3 Prompt Requirement
- Use / Notes Comparison & Summary



#### Learn with AI:

Reinforcement (Summaries) / Gap Filling Stronger Engagement (**Discussions** | **Activities**) Facilitate Group Process

- Don't jump in too quickly with Al
- Use / Notes Comparison & Summary





### THE CAKE IS A LIE





In the game Portal

An Al named GLaDOS promises you cake

if you accomplish a series of increasingly difficult tasks

# Al Curriculum Techniques



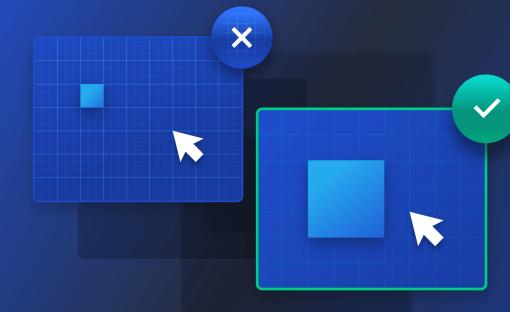


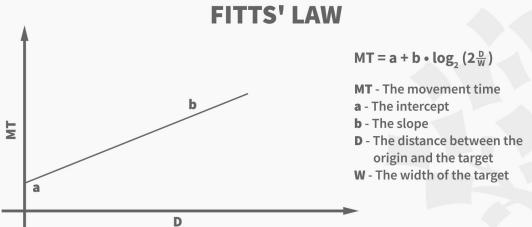
Quality Speed



Cost











### Curriculum Redesign



Please give me a 14 week curriculum (..Based On..)



Modules, Summaries, Projects, Rubrics



increasing / Decreasing emphasis on X



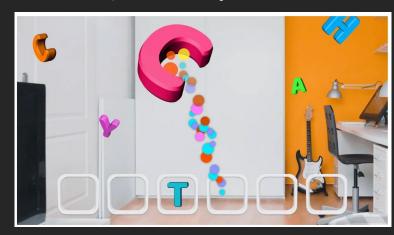
### Vocabulary Example

Generation

**Combination / Integration** 

Blend with other technologies:

**AR Example**: Catchy Words







### Al Chatbot Integration

- Chat GPT 4 (is now free)
- GPTs (Chatbots you build) can be shared with non-commercial users



#### Resources

CTL - Generative Al In Teaching

This Slide Deck:

