



Aligned AI: Balancing Goals, Engagement, and Support

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COLORADO
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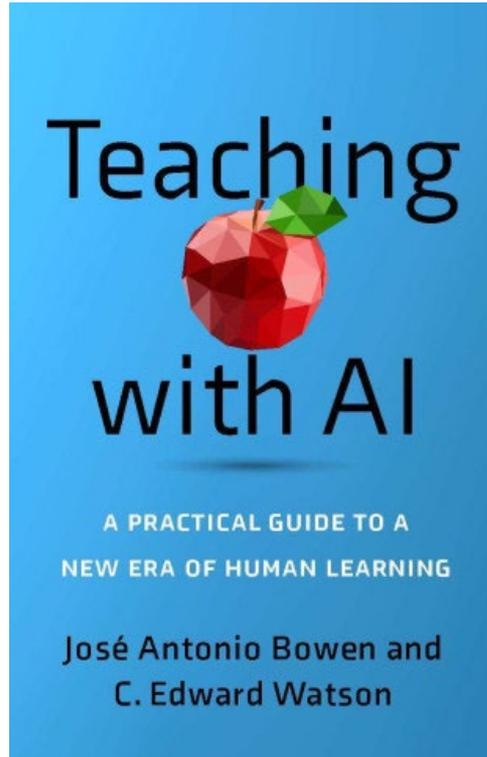
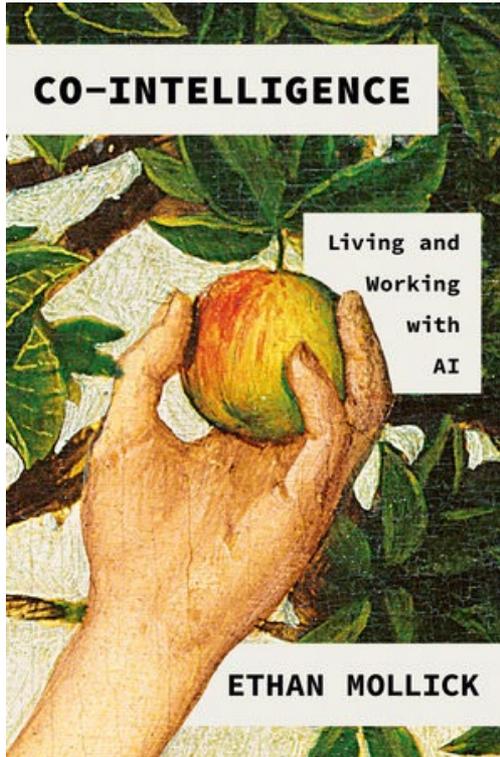
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Today's Goals

1. Identify facets of alignment pertaining to integrating generative artificial intelligence (Gen AI) into learning design.
2. Recommend strategies for supporting learner agency when encountering AI within a course design.



AI Good Books



**Mollick, *Co-Intelligence*
(2024)**

**Bowen & Watson, *Teaching
with AI* (2024)**

Green Light



**[“A Stoplight Model for Guiding Student AI Usage,”](#) *Edutopia*
(Mormando, 2023)**

Important Issues We Aren't Discussing



- **Policy**
- **Ethics**
- **Privacy**
- **Bias**
- **Accessibility**
- **General purposes for AI in an online course**



The Angst

"I believe the cost of getting to know AI - really getting to know AI - is at least three sleepless nights." (Mollick, 2024)

UDL Engagement: Value of Play

Access

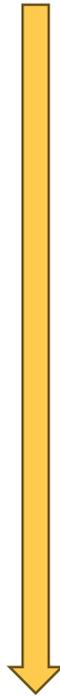
Design Options for

Welcoming Interests & Identities (7)



- Optimize choice and autonomy (7.1) >
- Optimize relevance, value, and authenticity (7.2)
>
- Nurture joy and play (7.3) >
- Address biases, threats, and distractions (7.4) >

UDL Guidelines Tiers of Support: Engagement Principle



Access

Welcome identities

Support

Sustain effort

Executive
Function

Emotional capacity building

QM Alignment

“Critical course elements work together to ensure that learners achieve the desired outcomes.”





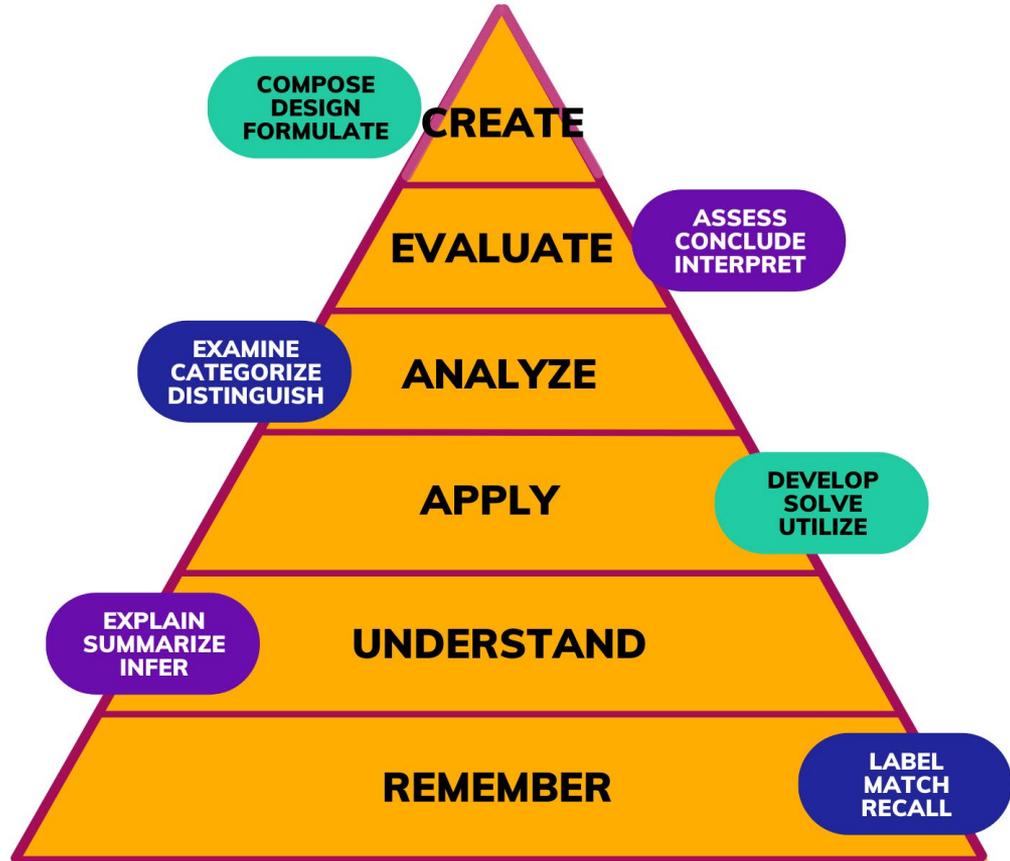
Alignment of Tools

SRS 6.1. The tools used in the course support the learning objectives or competencies.

"AI is a tool. Alignment is what determines whether or not it's used for helpful or harmful - even nefarious - ends." (Mollick, 2024)

Bloom's Taxonomy to Guide Objectives

BLOOM'S REVISED TAXONOMY



COGNITIVE LEVEL OF MODULE OUTCOMES

CREATE

EVALUATE

ANALYZE

APPLY

UNDERSTAND

REMEMBER

ANALYZE the impact a shortage of labor has on long-run economic growth.

IDENTIFY determinants of long-run economic growth.



Example Objectives



MLO 1. Identify determinants of long-run economic growth.



Compare a learner-generated list with an AI-generated list



Learners prompt AI for an inaccurate list and identify/correct the errors



Self-assess with follow-up questions from the AI



MLO 2. Analyze the impact a shortage of labor has on long-run economic growth.



Learners prompt the AI for scenarios to analyze, in discussion or individually



Prompt AI for alternative perspectives or counterarguments to their original analysis



Prompt a role-play with AI



English Composition

Institutional course objective:

- Plan, write, revise, and review multi-paragraph compositions that stress analytical, evaluative, exploratory, and persuasive/argumentative writing within various rhetorical situations.

Unit 3 objectives:

- Review persuasive writing to critique and improve compositional choices.
- Integrate feedback to improve compositional choices.

AI Alignment

MLO: Review persuasive writing to critique and improve compositional choices.

MLO: Integrate feedback to improve compositional choices.

Unit 3 Essay

Learning Activity:
ChatGPT feedback
guided thinking
activity

Tool: Generative AI
(ChatGPT)

Human Alignment

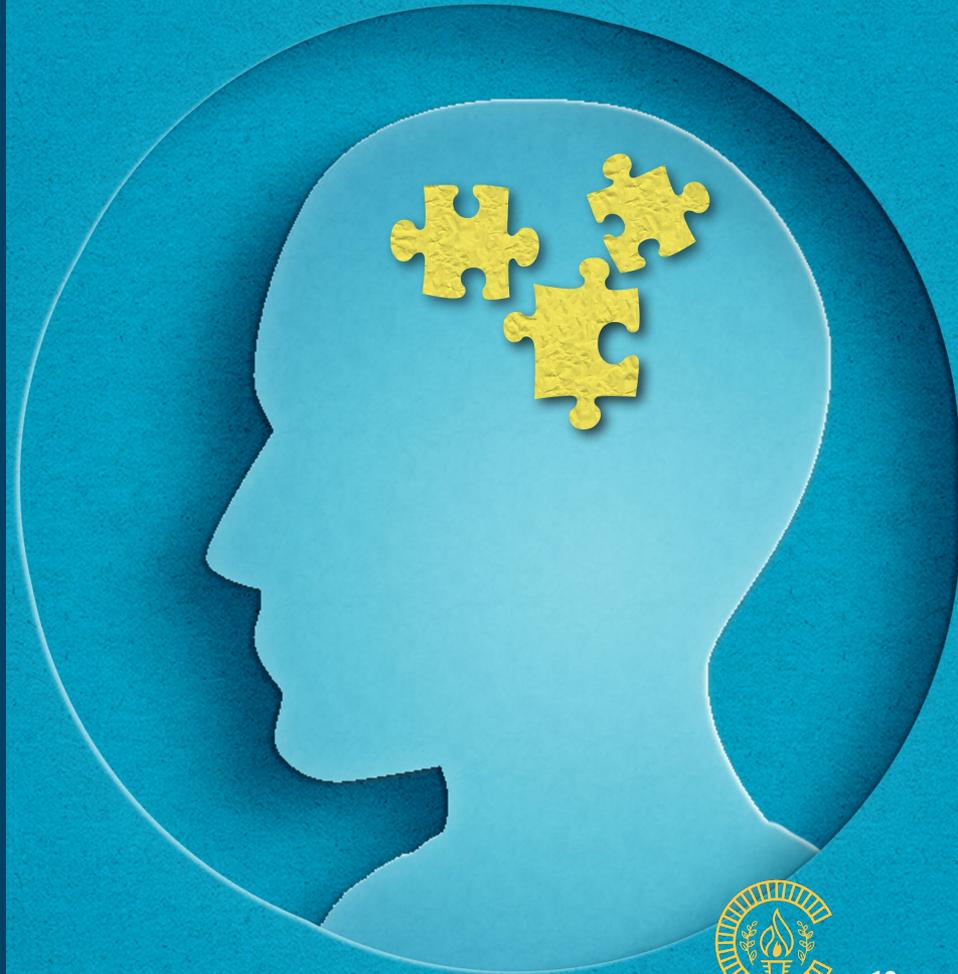
“The key is to recognize the tasks that are meaningful and fulfilling for you as a human being and that you would rather not delegate or share with an AI system.” (Mollick, 2024)



Enhance Alignment

Where are learners struggling or overspending their time when compared to the objectives?

Improve alignment by focusing where learners direct their cognitive effort.





Universal Design for Learning

Course Objectives :

- Describe the principles and theory behind the Universal Design for Learning (UDL) framework.
- Analyze the impact of UDL on diverse learner populations.
- Apply UDL to create effective learning activities, assessment tools, and course materials.
- Implement UDL strategies to address learning design challenges.

Learner Profiles

Learners develop 3 [learner profiles](#) as the lenses through which they analyze a course and apply UDL-informed design strategies.



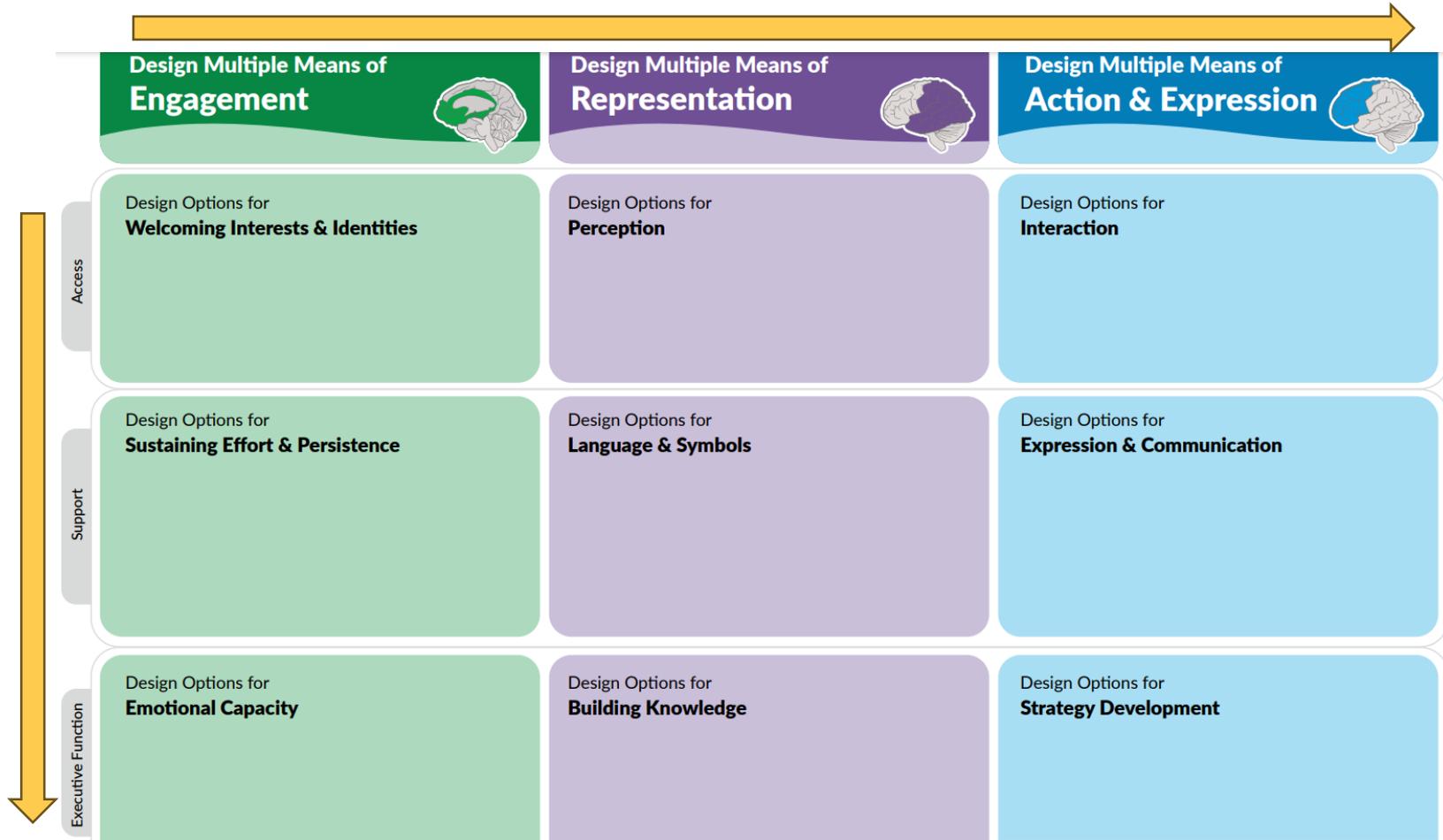
Learner Agency

"Ultimately, the goal of UDL is to support learner agency, the capacity to actively participate in making choices in service of learning goals."

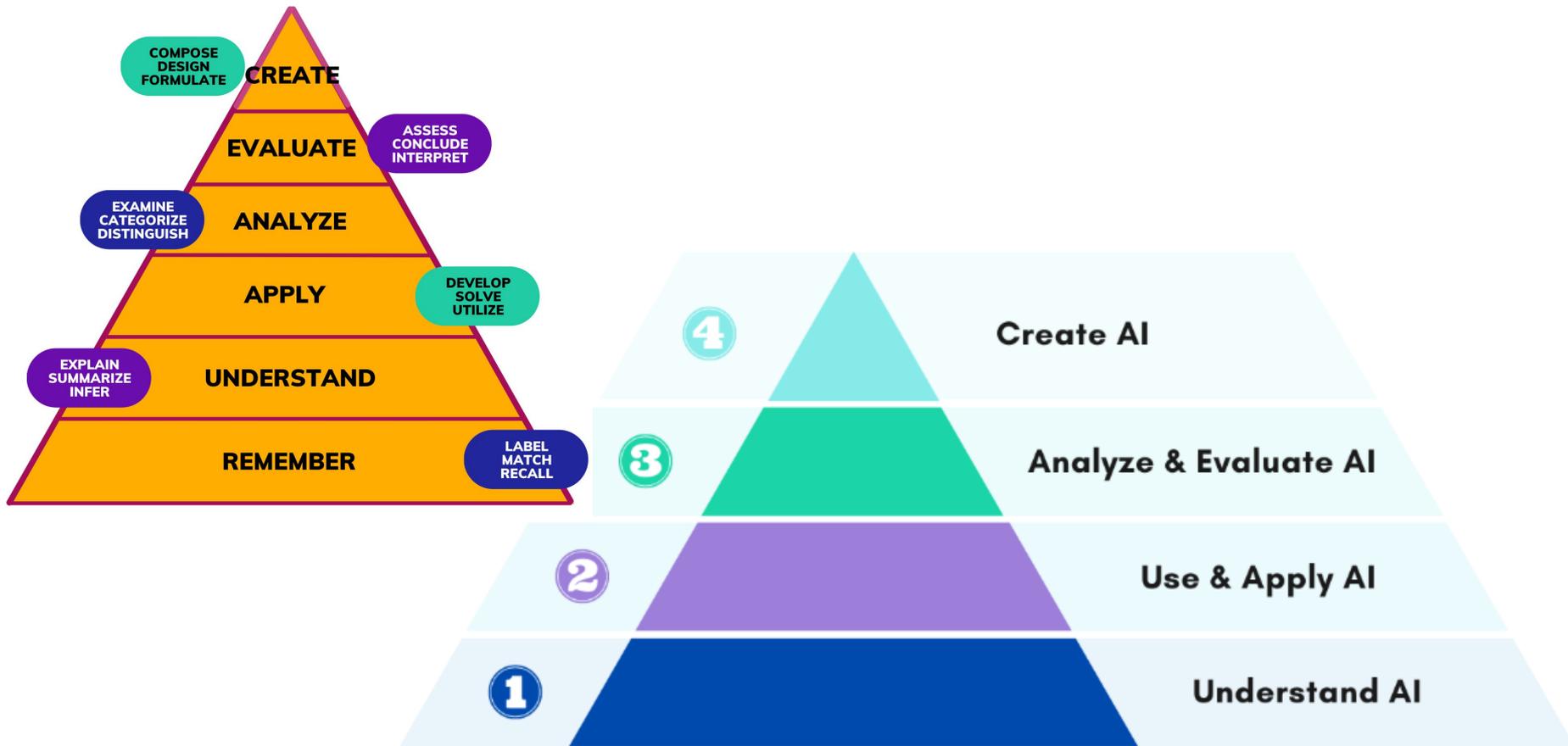
(CAST, 2024)



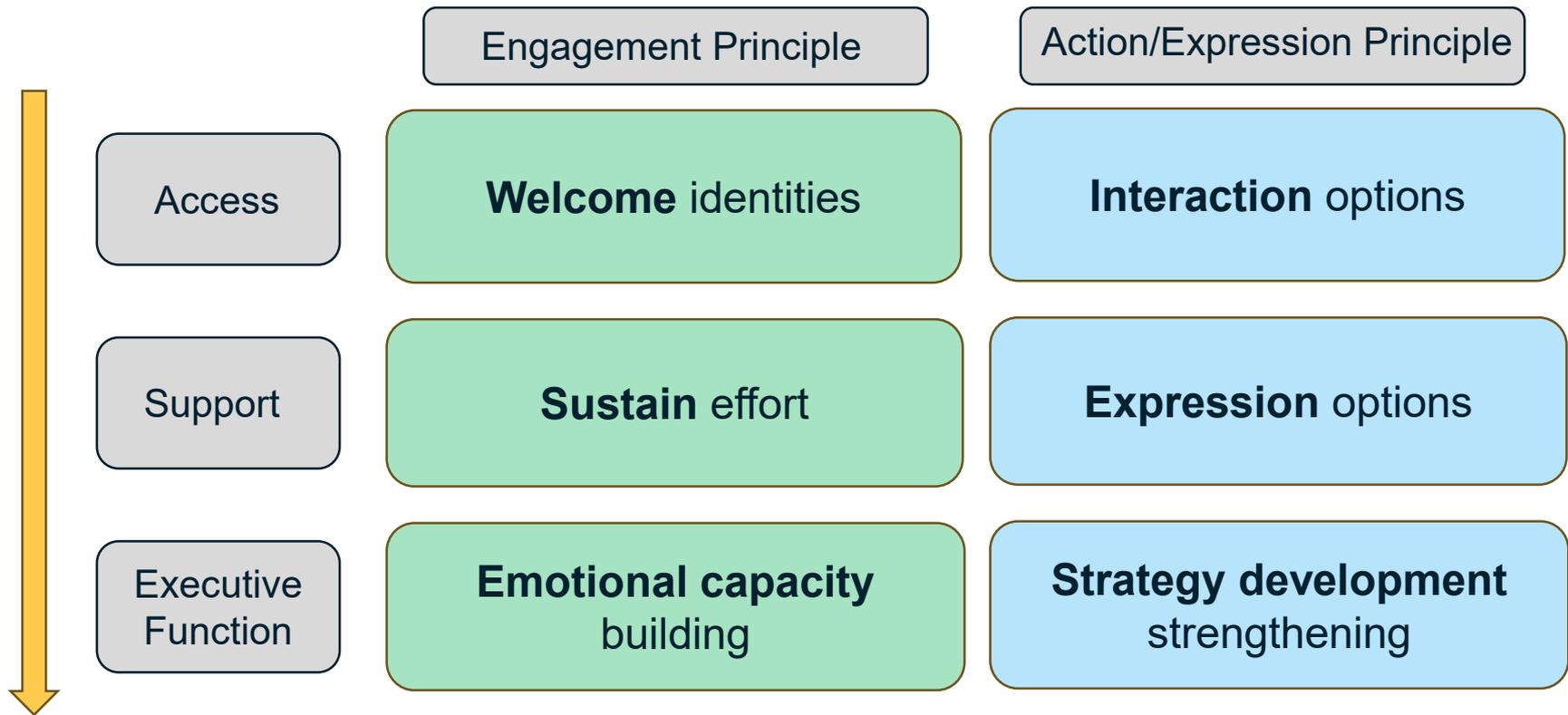
UDL Guidelines Version 3.0 (July 2024)



Cognitive vs. AI Literacy Taxonomy



Supporting Learner Agency





Engagement Support



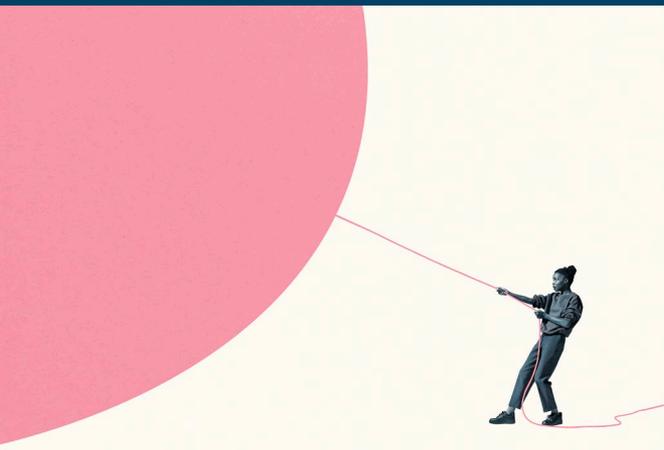
Clear explanation of goals and learner-centered value



Options where possible



Experimentation is balanced with structure and support



Emotional Regulation



Reflection prompts that prioritize the “human in the loop”



Opportunity to share results and process with others



Feedback that supports growth mindset and emphasizes process



Knowledge Building and Expression Support



Templates for prompts and instructions



Examples and applications



Provide and connect learners to resources

A scenic landscape featuring a river in the foreground, a dense forest of evergreen trees in the middle ground, and rugged mountains in the background. The scene is overlaid with a large, semi-transparent blue rectangle. The word "Reflections?" is written in a bold, yellow, sans-serif font within this rectangle. The overall mood is serene and contemplative.

Reflections?

Align Gen AI activities to learner needs as well as to objectives!



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