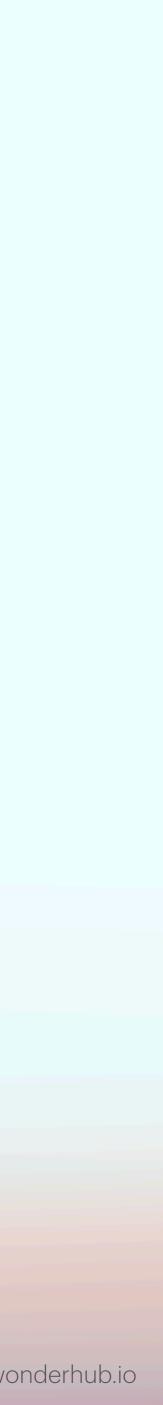
# AI + Creativity How GenAI can transform the creative process.

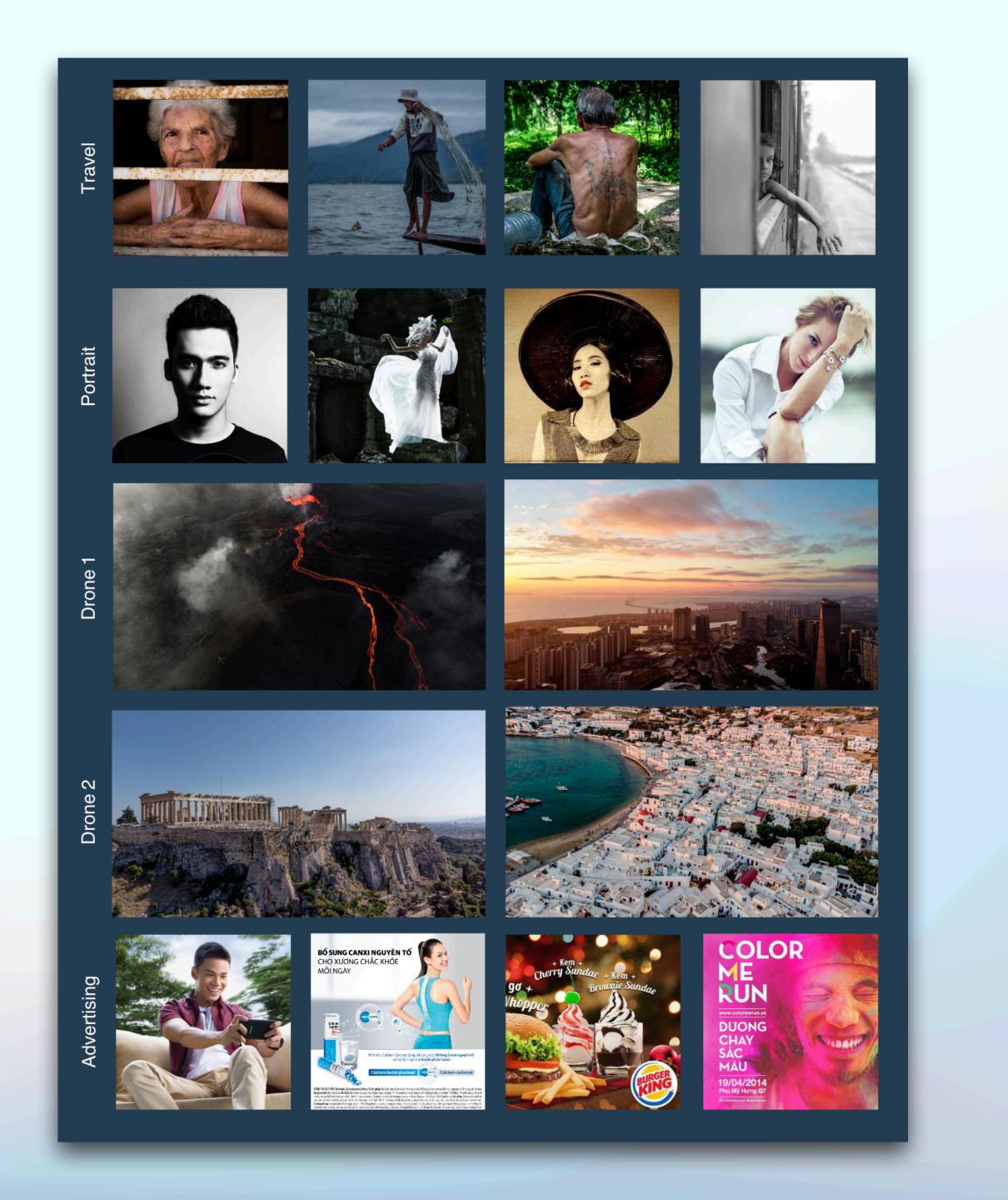
Alex McMillan, M.Ed.





# Power Points Live for Inclusive Subtitles

# Background as a creative



#### PROCESS & EXAMPLES FOR ADVANCED USERS

# USINGAI TO ENHANCE

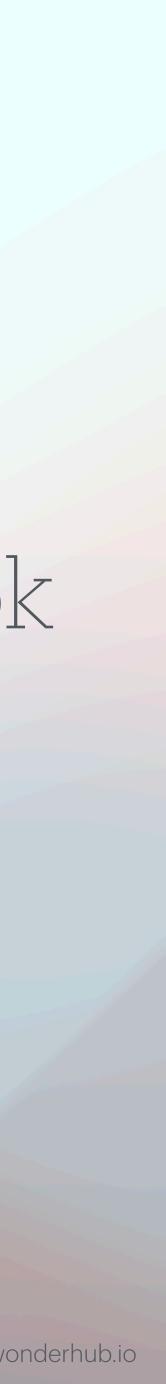
ALEXANDER E MCMILLAN

WORKS EXAMPLES FOR TEACHERS & STUDENTS

#### USINGAI TO ENHANCE CREATIVITY

Alexander E McMillan & Dr. Shannon H. Doak

# Content from this free Book withTAPE.com



### ai.wonderhub.io

 $\bigvee$ 

### "Materials"

V

### "Creativity and AI Presentation"

### Materials

#### **Enhancing Creativity**

USINGAI TO ENHANCE CREATIVITY

Free eBook! As part of the Process portion of TAPE, withTAPE.com is launching an eBook series titled "Using AI to Enhance Creativity." This series will break down a creative process that leverages AI. It does not replace the thinking of the user. This process has effectively supported the development of various projects. These projects are [...]

#### **Creativity and AI Presentation**



Presentation about ways you can incorporate AI into the writing process with your students and set clear expectations. This presentation includes several writing journal templates and examples of ways you can set expectations with links to chatbots to experience writing from a student's perspective!

#### Writing with AI Cards

2



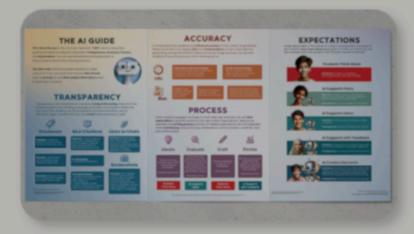
Brainstorm a Writing Process & Expectations about When & How AI Can Be Used Introduction To The Cards Welcome to the Writing Process and AI Integration Cards! This innovative tool helps you develop your writing strategy and make informed decisions about AI use in your assignments. These cards offer flexibility and can be adapted to [...]

#### **TAPE** Graphic



for Responsible AI-Use in Classroom The original TAPE graphic that started it all– download it and hang it up in your classroom, embed it into a presentation, or post it on your LMS to quickly share how your students can be responsible users of AI. Attribution Alex would be thrilled if you would like to [...]

#### The AI Guide



Responsible-Use Framework and Practical Tips for Educators Teaching in the age of AI can feel like navigating uncharted territory. That's why I'm thrilled to share a fantastic resource I collaborated on with the amazing Holly Clark: The AI Guide! This free, six-page document is packed with practical tips. It also includes ethical frameworks to help K-12 [...]





# How can we use AI to enhance our creativity?

### Guiding Question



This presentation is not and the human spark.

Note

# advocating for particular tools; it's advocating for a process, intentionality,



# Internalize a process that can deepen thinking whenusingAI

### Learning Target



# 5 Key Concepts,

# Definitions



# Concept 1: AI is a "Cognitive Amplifier"



GenAl can help you transform your creativity, not replace it! Al Disclosure: video and GIF by Sora



# The best results come from ongoing conversations with an AI



Keep the conversation going to make your ideas come to life. Al Disclosure: image by DallE 3, video by Pika

Concept 2:



# **High-Quality Input**



When you put in high-quality ingredients, you will have better results. Al Disclosure: image by Flux, video by Pika

Concept 3:



# Avoid "Creative Convergence"



Put your own spin on the input and output whenever possible to avoide "creative convergence" and everyone getting similar content. AI Disclosure: image by recraft.ai, video and GIF by Sora

Concept 4:



# **Credit Where Credit Due**

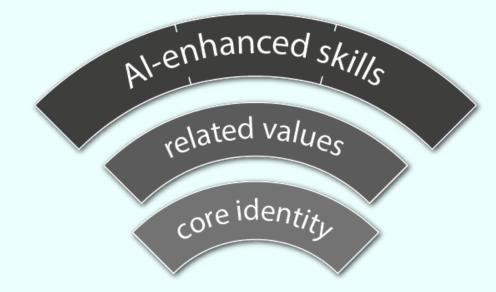


Be open and honest about when and how AI informed or transformed your work. It can be as easy as a disclosure, or as formal as a citation. *AI Disclosure: video and GIF by Sora* 

Concept 5:



#### Key to The Graphic



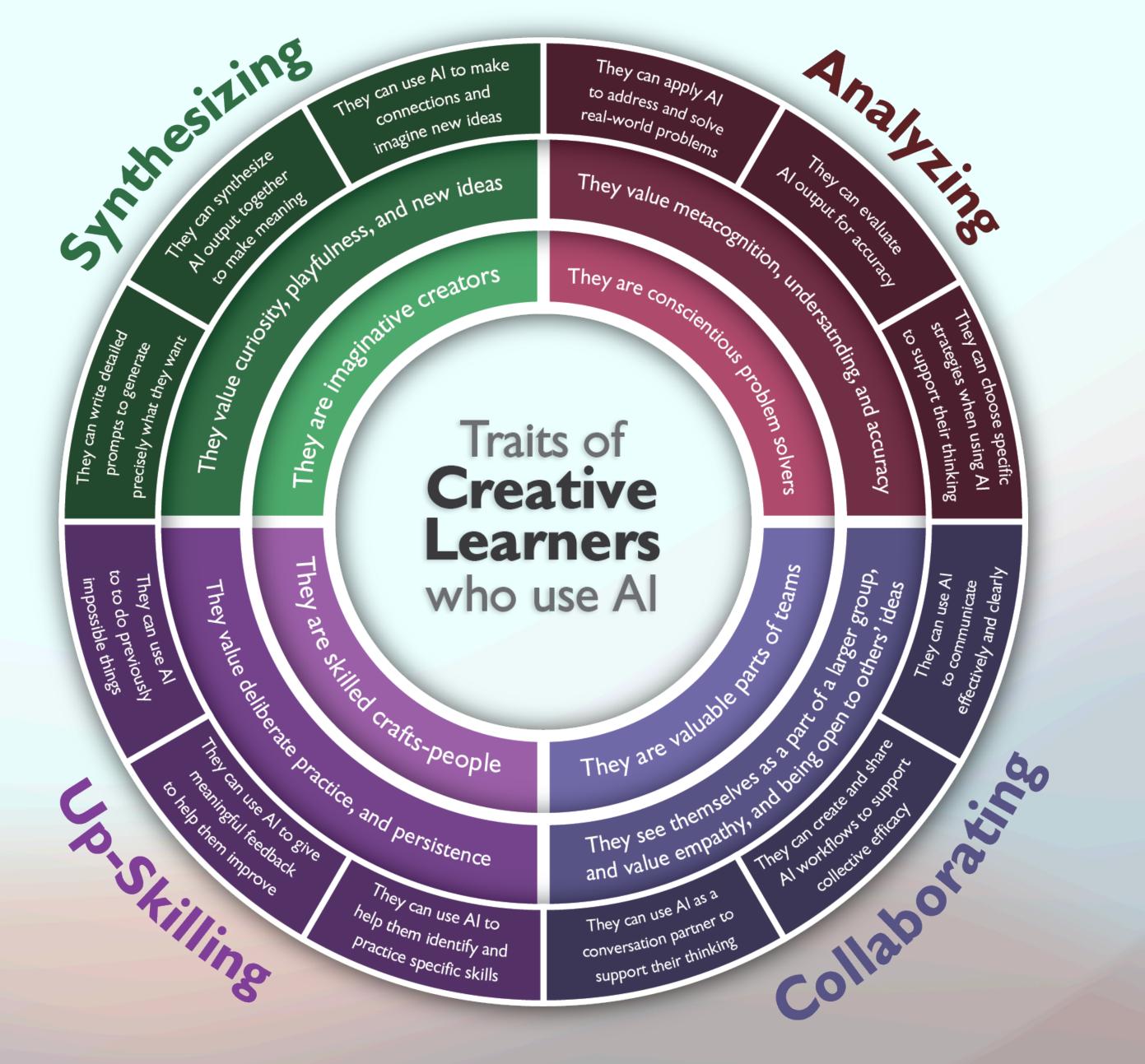
This graphic illustrates the multifaceted nature of creativity— beyond originality— and demonstrates how AI can be used to enhance different dimensions of creative thinking. Rather than providing an exhaustive catalog of creative approaches or Al applications, it offers an outline for understanding how Al tools can complement and amplify human creative capabilities when used intentionally.

The inner ring represents our identities as creative humans, **the center ring** represents our values, and the outer-most ring represents examples of some skills and behaviors that learners might show when using Al for creative purposes.

This graphic intentionally does not include AI in learners' identitites or values; our identities and values should drive our behaviors. In other words, when we consider who we are and what we value, we then decide how we use Al to enhance our creative thinking.

precisely wh<sub>at</sub> they w<sub>aht</sub> They can wri<sub>te</sub> d<sub>etailed</sub> They can use Al to to do previously impossible things

Graphic by Alex McMillan, informed by Robert Sternberg (1996) & TALLIS Habits based on Lucas, Claxton, and Spencer (2013)





## Critical & Creative Thinking

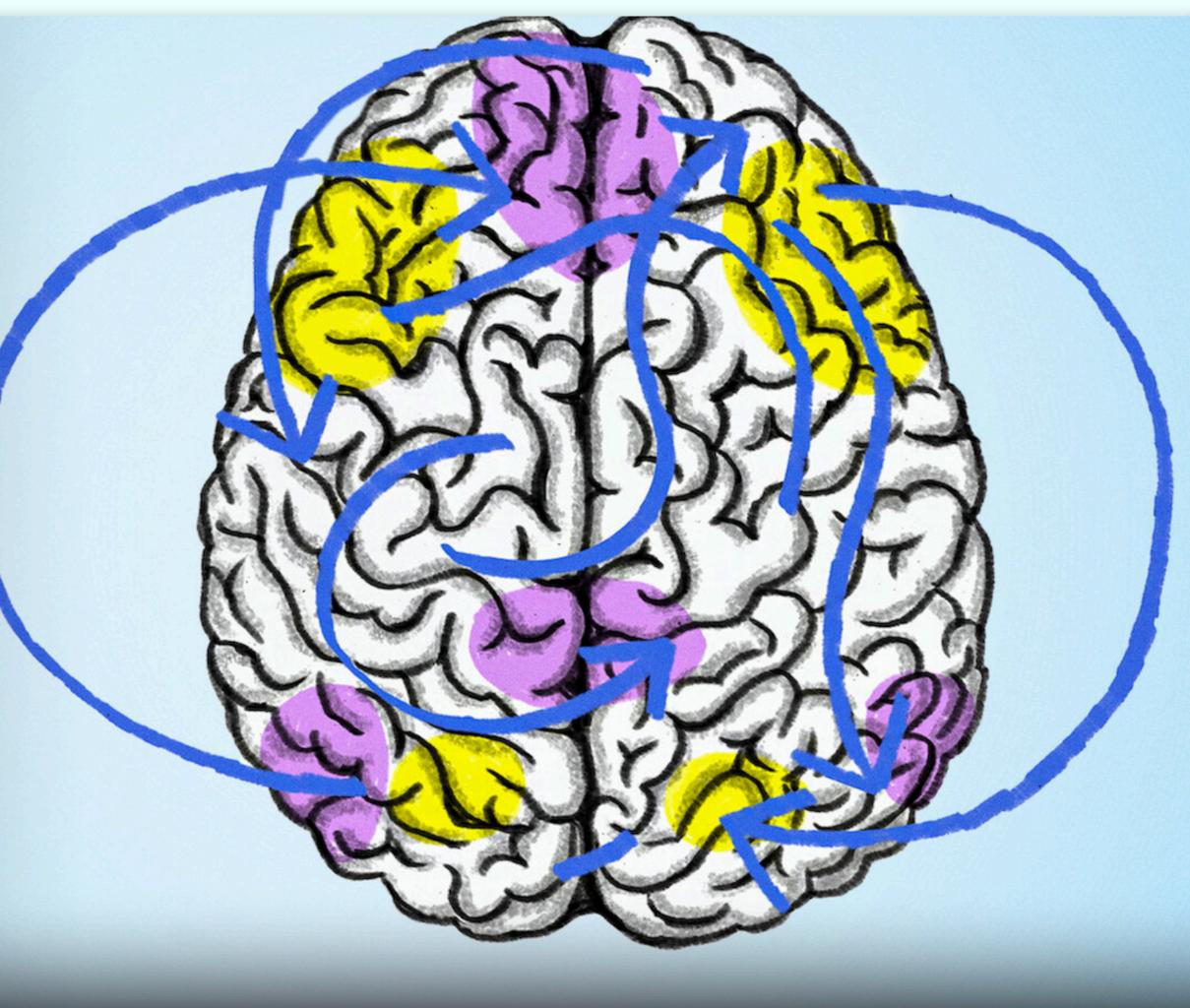


#### The Mind, Explained

2019 | TV-14 | 2 seasons | Documentary

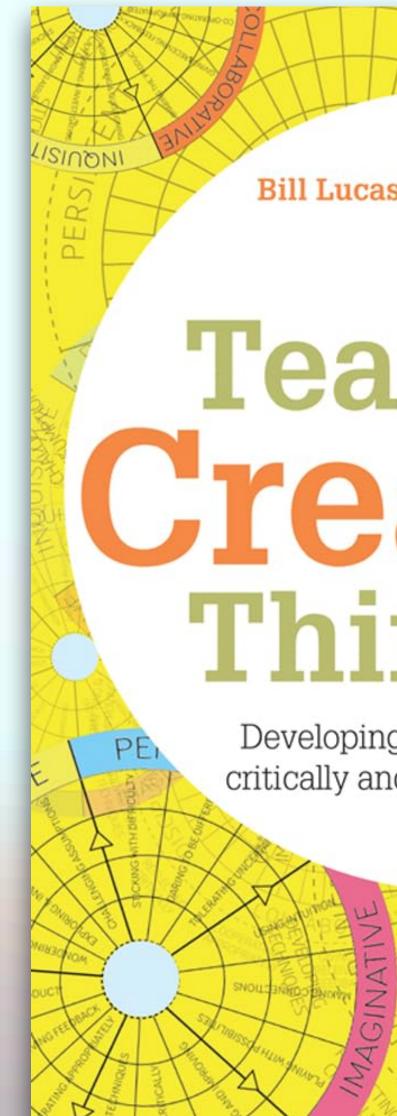
Ever wonder what's happening inside your head? From dreaming to anxiety disorders, discover how your brain works with this illuminating series.

Starring: Emma Stone, Julianne Moore





# Critical & Creative Thinking



**Bill Lucas and Ellen Spencer** 

# Teaching Creative Thinking

Developing learners who think critically and can solve problems



Process

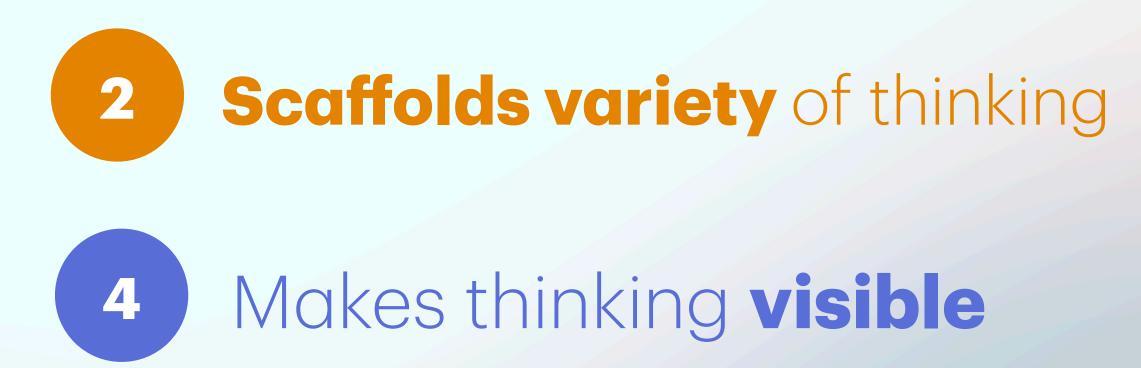


# Involves multiple steps

#### Often action oriented 3 Plan, discuss, analyze, create, test

Examples: PZ Thinking Routines, Design Cycle, Inquiry Cycle, Coaching Cycle







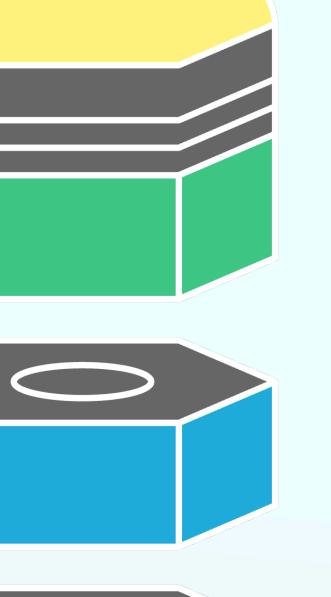
#### Structure for Thinking Routines



Think on my own with initial human creativity, thoughtful prompt, or content creation

Edit

Edit the AI output with human transformation of its content





#### Generate

Generate content from AI through an iterative dialogue and refinement with to create and find the best output

> Graphic by napkin.ai Alex McMillan | wonderhub.io





#### Use the black card

### GENERATE EDIT



icons by napkin.ai

withTAPE.com

### Talk to a partner for 1 minute

2

Discuss these questions to help spark your chat.

Is this process something **you** can try on your own?

...or with your **students**?

If you were to **adapt** this thinking routine to your context, what things might you do?

Have you ever followed **a similar** process when thinking creatively?

Switch with your partner

3

withTAPE.com

1:00



# Worked Examples





# Example 1: Music

# Think: Write song entirely on my own

## Generate: 3 hours

# Edit: Used my skills

Alex McMillan | wonderhub.io

Music by Alex McMillan + Suno Image by recraft.ai

Shill SAR ARADA ......



# Example 2: Cards

Think: Conceptualized, Canva project

Generate: prompts and images of kids

Edit: flaticon and layout

#### Process Cards

#### SET GOAL



What do you hope to accomplish?

**Expectation Cards** 

Expectations

### Students Think Alone



Al-generated questions on the front and back of each card Al-generated children to show how much Al can be used



# Example 3: Podcast

## Think: Interview

# **Generate:** 11 Labs' Voice Clone

## Edit: Edited together





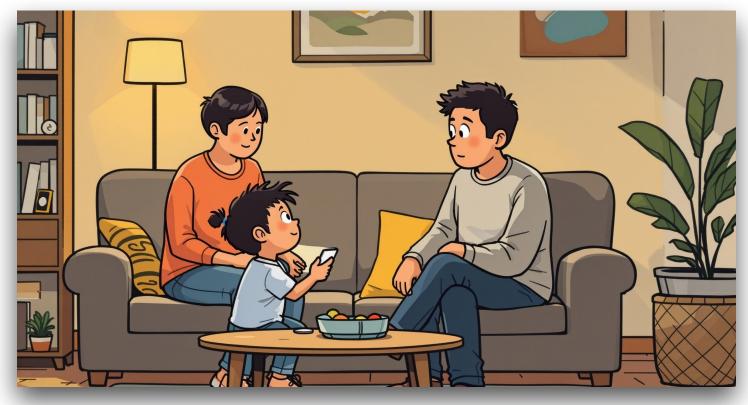
## Example 4: Character

Think: Technical prompt for Midjourney

Generate: Image generation

### Edit: Pika for 360 video

Alex McMillan | wonderhub.io



The first image generated by a text prompt



Using the father on the right, I generated a video to show multiple angles to help imagine the character in different frames for a comic.



#### Use the blue card



icon by napkin.ai

withTAPE.com

2

#### Talk to a partner for 1 minute

Discuss these questions to help spark your chat.

What **personal interests** did you see a connection to?

Next time you're working on a project, what could you try?

How could you make sure you're always keeping **a human in the loop** when it comes to creation?

Switch with your partner

3

1:00

withTAPE.com



# Example 6: 3D Models

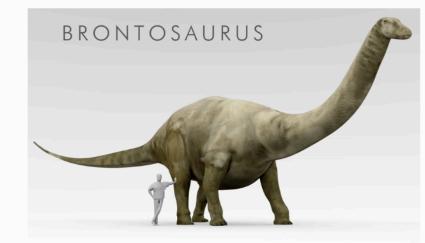
Think: Students thought about evolutionary change, then crafted prompts

**Generate:** input prompts into an Al

### Edit: Modified then printed 3D model

Alex McMillan | wonderhub.io

#### Think



Try thinking about change over a period of time.

In this example it is evolution of an extinct species. Think and research what kinds of change have happened to other species of those things what might apply to your extinct species?

Other examples could include cell mutation, the shape of a vehicle, landscapes, fashion, aging and more.









# Example 9: Magazines

Think: Students learned about tone, made plans

**Generate:** Generated visuals in Canva

Edit: Students added designs, regenerated parts

Alex McMillan | wonderhub.io

# masterART

Embracing Simplicity: The Timeless Elegance of Minimalism

Symbolism in Art: Unveiling Masterpiece

Enduring Excellence: Top 10 Classic Must-Knows





# Example 9: Exemplar Inspiration Think: Planned, drew

# **Generate:** Generated options, new scenarios

Edit: used as storyboard art and drew own pieces

Alex McMillan | wonderhub.io



Original based on a drawing





# Example 9: Languages

Think: OCR-extracted text, Magic School comprehension, Eleven Labs voices

**Generate:** Prompting, refining

### Edit: Garage Band







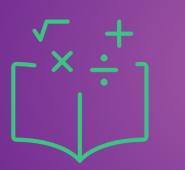


#### Use the purple card

### Talk to a partner for 1 minute

2

### ACADEMIC SUBJECTS







icons by napkin.ai

withTAPE.com

Discuss these questions to help spark your chat.

Next time you're in class with students, **what could you share with them** from today's presentation?

How do you think your academic subject could **benefit** from AI?

What things do you want **to watch out for** when students are being creative with AI? **3** 

# Switch with your partner

withTAPE.com

1:00



# **Reflection and Consolidation**









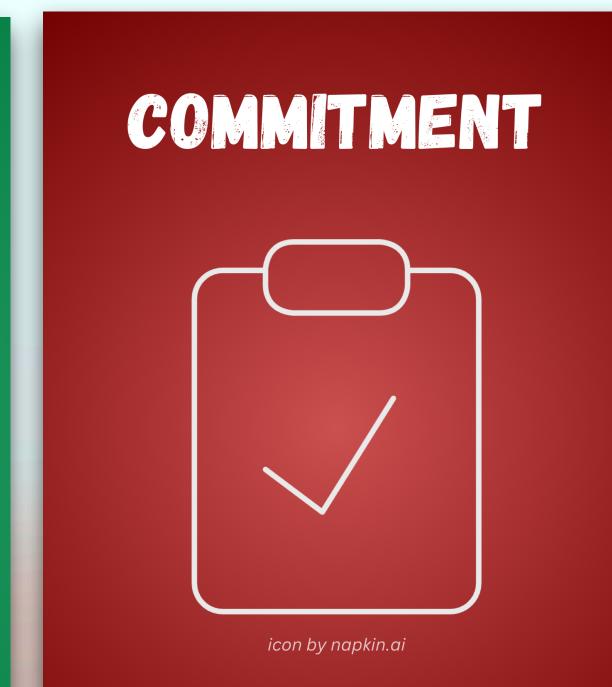
withTAPE.com



#### Talk to a partner



#### Switch with your partner



1:00

withTAPE.com





#### Consider your biggest takeaway





# Share Out



Pick a card to represent a category



#### Share it with your table or group



#### WORKED EXAMPLES FOR TEACHERS & STUDENTS

PROCESS & EXAMPLES FOR ADVANCED USERS

#### USINGAI TO ENHANCE CREATIVITY

ALEXANDER E MCMILLAN

# USINGAI TO ENHANCE

ALEXANDER E MCMILLAN & DR. SHANNON H. DOAK

# Contribute to book 2! withTAPE.com



### Using AI without a clear process can lead to...

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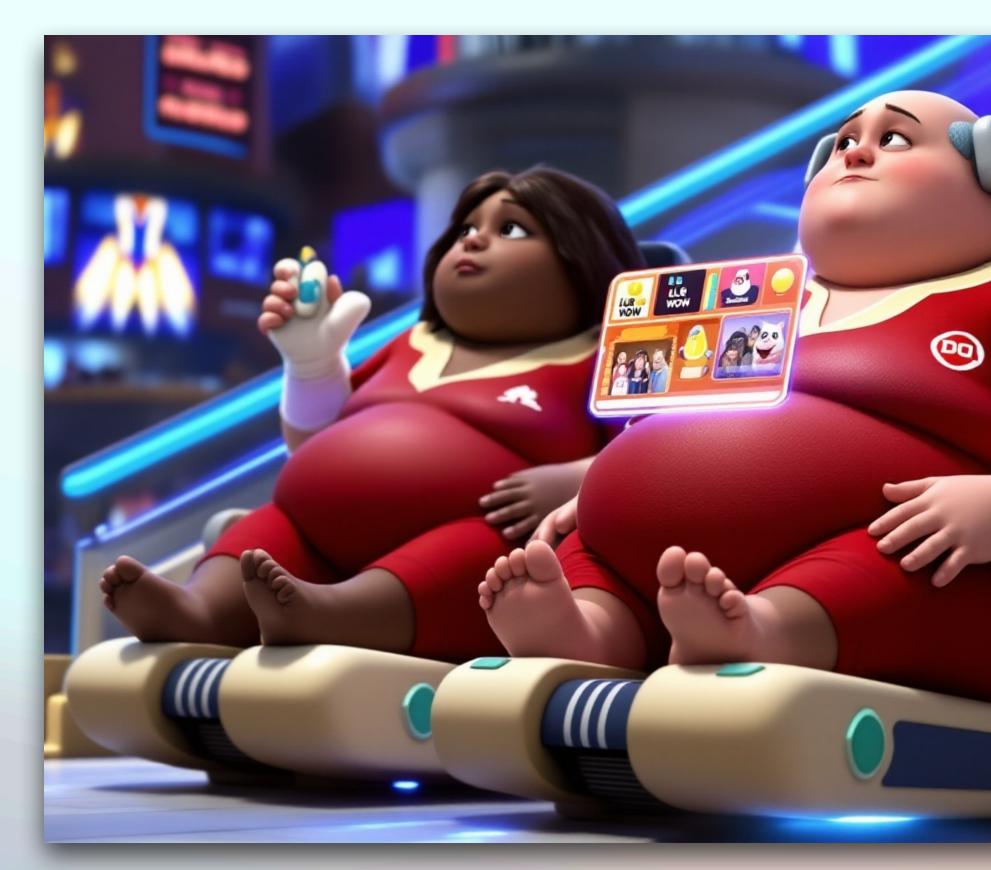


Image by Flux

### Learned helplessness

#### Al does work for us

#### We "do school"

Alex McMillan | withTAPE.com



## Using AI with a clear process can lead to...



#### Image by DallE 3

### Resourcefulness

### Active thinking

### Enhanced creativity

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### Contact Alex McMillan

- Bluesky: mralexedtech.bsky.social
- Linkedin: linkedin.com/in/ alexandermcmillan
- Twitter/X: @MRAlexEdTech



Give Session feedback

