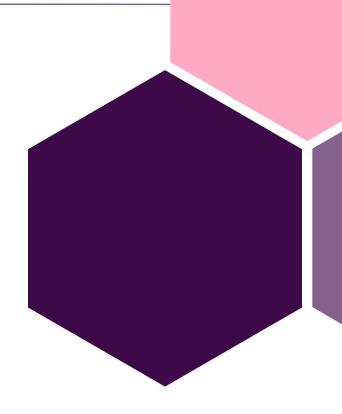


# Planning for Change -Adaptive Leadership in the Age of AI



CAPSS - 3.20.24

### Skills21 at EdAdvance



#### Matt Mervis Director Skills21 & Al Strategy at EdAdvance

mervis@edadvance.org

skills21.org/ai

#### What We Know Now & What Might Be Next

- Shock and Awe The Sledgehammer!
- Flip Side of the Coin Teacher Productivity
- It's Not Just Black and White Powerful Use

Cases for Student Facing Al

• Core Literacy + Equity Drivers

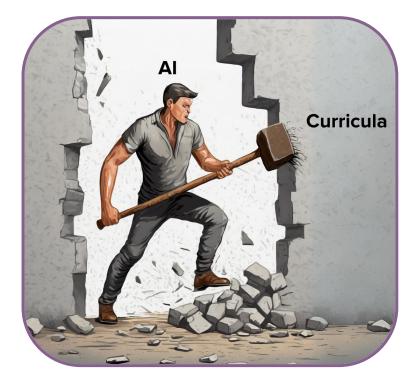


Image generated by AI in Adobe Firefly

## So What Did They Do?



## A Picture is Worth...



Prompt

Happy superintendents learning about AI



# The GenAI Sparking Joy Test



## The GenAI Sparking Joy Test



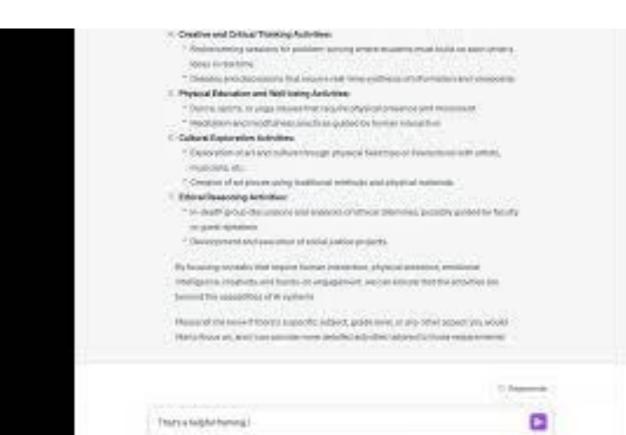
# **10 AI Productivity Hacks**

- Lesson Planning
- Summaries and Explainers
- Differentiated Text
- Rubric Writing
- Home-School Communication
- Assignment and Test Creation
- Calendar Management
- Classroom Layout and Physical Organization
- Language Translation
- Data Analysis\*
- Student Feedback\*



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#### **Curriculum Partner**



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## **Creating a Rubric**

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## **Drafting a Parent Letter**

#### CNINPT 4 -

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#### Student AI -It's Not Just Black And White



To Ban or not to Ban ChatGPT - That is NOT the Question

An **elementary student** creates an interactive spoken story, where AI provides the opening starter, and then the student and AI take turns orally adding

sentences to build the narrative....





**Student** uses AI for brainstorming and/or outlining and then writes based on the outline...





Student uses AI to model climate changes and understand complex weather systems like ocean currents and weather

patterns...





# **Student** writes original content and then uses AI for feedback on their writing...





**Student** takes a picture of a page from their textbook and then uploads the photo to AI. The AI tool then translates the page into any language.





#### The Humorous Side of AI Vision



#### ChatGPT

The image shows two runners with different running gear and styles. The first runner is dressed in a green shirt, shorts, sunglasses, and running shoes, with a number on his shirt, suggesting he's equipped for a long-distance run. He looks focused and perhaps tired. The second runner is shirtless, wearing shorts, and seems younger. He's running with an open stride and has a number on his torso. This attire is less conventional for a race, suggesting a more casual approach or a personal preference for minimal clothing while running. The contrast might indicate different levels of preparation, comfort with running gear, or simply personal choice in how to approach the race.

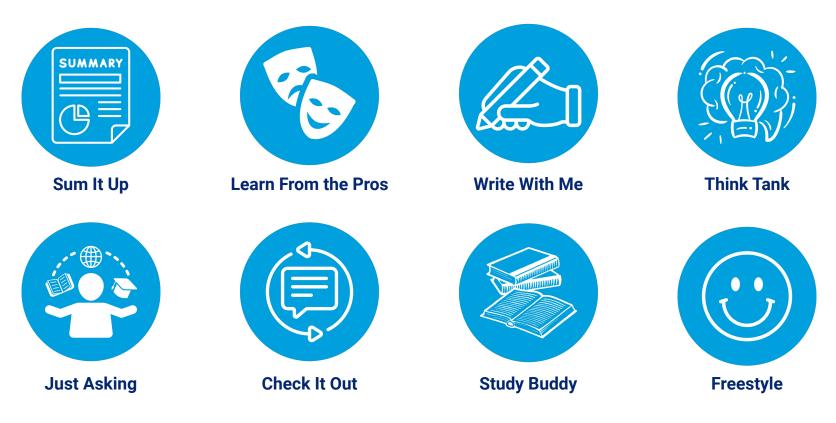
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## **Growing Equity Problem!**

- Students with higher academic performance were significantly more likely to use AI tools than were students with lower academic performance.
- Among students who used AI tools, almost half (46%) reported that they had used these tools for school assignments.
- Nearly three-fourths (74%) of students believed that their overall performance in school would improve at least a small amount because of using AI tools for school assignments.
- More **students believed their creativity would increase** than believed it would decrease (50% vs. 28%), while their opinions on critical thinking and persistence were mixed.



#### SIDEKICK ACADEMY CURRICULUM



www.skills21.org/ai-platform

# What is the Future Of Instructional Design with AI?

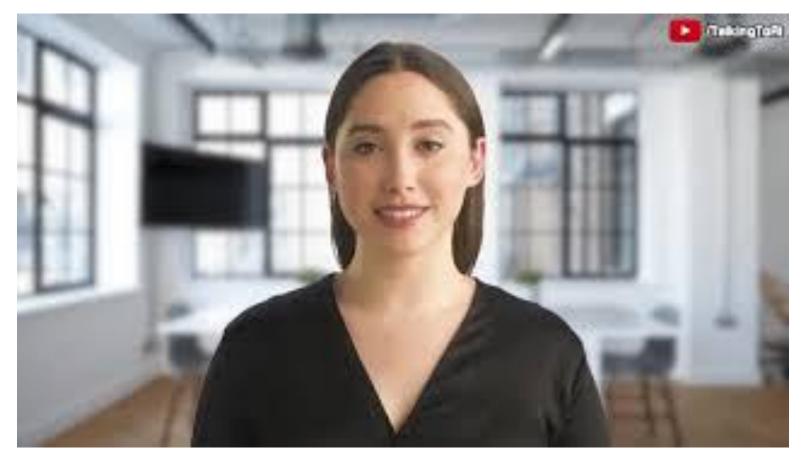


Hi. I'm Collin and I'm in 5th Grade!

Hey there, Collin! » It's awesome to meet you. Being in 5th grade must be pretty exciting, with so many cool things to learn about! What's your favorite subject in school? Or is there something specific you'd like to know more about?

Next week my teacher says we're learning about cell mitosis. Can you tell me what I need to know? I love to answer questions, so please give me a question after each bit of infomration you share with me :).

## From Voice to Video



## From Video to Hologram or VR?



Images generated by AI in ideogram

"fly through tour of a museum with many paintings and sculptures and beautiful works of art in all styles"



## **DeepMind Genie Model**



#### A model that is able to **generative interactive game environments from text and images**.

#### Example Prompt

"Create an interactive game where students play as a water molecule and journey through the different stages of the water cycle - evaporation, condensation, precipitation, and collection. Include obstacles and challenges that help students understand the science behind the process. Make the environment colorful, fun, and educational!"



Image generated with AI in ideogram

## **DeepMind Genie Model**



A model that is able to **generative** 

interactive game environments from text

and images.



#### The Holodeck from Star Trek, anyone?

# Marilyn Monroe 3.0

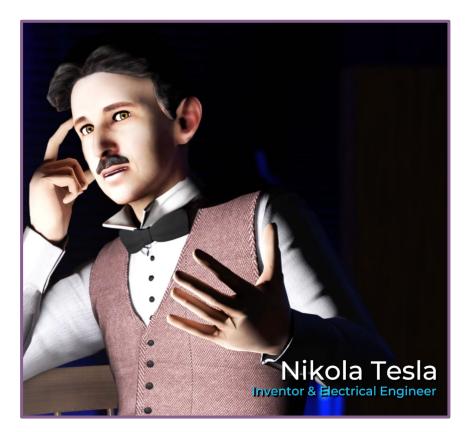




### **EngageXR - School of AI**



#### **The Human Augmented Classroom**





What Skills Will Students Need to Know and Be Able to Do?

## **Useful Cognitive Skills**

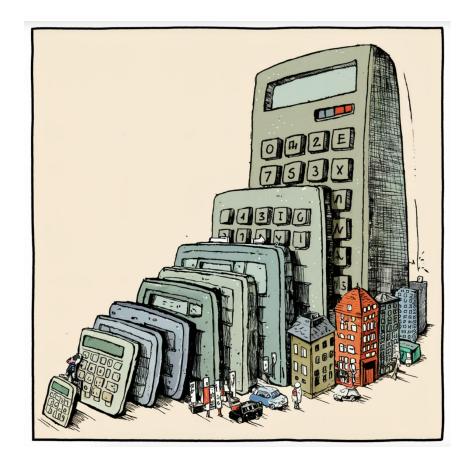


Image generated by AI in ideogram

### Devin - Your AI Coder

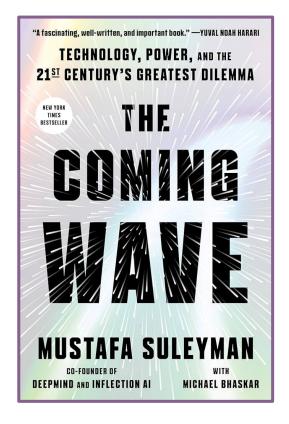


Image generated by AI in *ideogram* 

**Ethan Mollick:** "You can start to see what an AI agent can do. I give it instructions and it actually **makes a plan and executes it autonomously,** doing research, writing code and debugging with **no need for me to do anything else other than provide feedback**. The first example of a truly different mode of working with AI to accomplish work tasks. A really cool start".

### Four Waves of AI

- 1. Indexing, Labeling, Self-Learning
- 2. Co-Creation with GenAl (Current Phase)
- 3. Autonomous Agents Based on Our Guidance
- 4. AGI Prompts Itself, Prompts Us, Gets it Done 😳



#### **The Social Balance**



## When Your Technical Skills Are Eclipsed, Your Humanity Will Matter More Than Ever

- **People Skills:** Empathy, teamwork, and effective communication
- **Critical Thinking:** Reflective and independent thinking to evaluate information and solve problems creatively
- Innovation and Adaptability: Innovate and adapt to new situations or changes in the workplace
- **Human-Centric Skills:** Building relationships, negotiating, and motivating teams
- Lifelong Learning: Commitment to learning and development



<u>The New York Times</u>

# What Skills Should Students Learn in an AI-Powered World?

- **Soft Skills:** Importance of communication, empathy, and teamwork as technology evolves.
- Learning Ability: Being adaptable and continuously learning new skills in a fast-changing environment.
- **Problem-Solving:** Analyzing complex issues and coming up with innovative solutions.
- **Collaboration:** Working effectively with diverse teams to achieve common objectives.
- Adaptive Assessment: Comfort with non-traditional, dynamic forms of demonstrating knowledge and skills.



**Education Week** 

## What Does the All Knowing Think? 😉

- **Digital Literacy:** Understanding AI, data privacy, and tech ethics to navigate and use technology effectively.
- **Critical Thinking and Problem-Solving:** Evaluating information critically, identifying biases, and solving complex problems creatively.
- **Creativity and Innovation:** Generating innovative solutions and thinking creatively beyond AI's capabilities.
- **Emotional Intelligence (EQ):** Managing emotions, empathizing with others, and mastering interpersonal skills in a tech-driven world.
- Adaptability and Lifelong Learning: Embracing continuous learning and adapting to new technologies and changing environments.

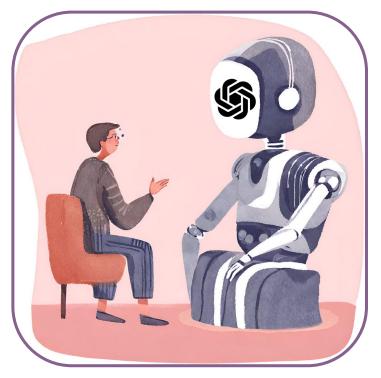


Image generated by AI in Canva

### Plug Warning - The Best Place for Durability

### Unlock Student Passion and Potential

The Skills21 Personal Interest Project (PIP) provides an opportunity for students to follow their passions and complete a project where they can "learn, solve, make, or do" while mastering high leverage skills necessary for school and beyond. Personal Interest Projects offer students empowered participation to explore their own identity, to make meaningful connections, and to enjoy a true sense of belonging.



Skills21 - Personal Interest Project

### **But in the Meantime**

Prompt: You are an expert in designing AI resistant activities for students.

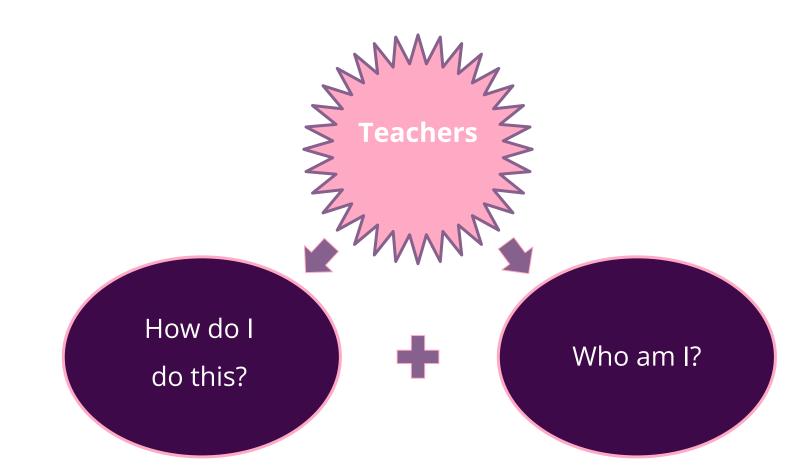
These "Durable Activities" are ones that a generative AI chatbot can't do for a

student. Can you help me draft 5 Durable Activities for (insert grade level and

topic) and make sure they help students master (insert a high leverage skill or skills). Thank you!

skills21.org/prompts

### It All Boils Down To....



# How Will We Organize People Schedule and Budgets?

# **Early Evidence of Increased Productivity**

#### The Tasks Consultants Completed

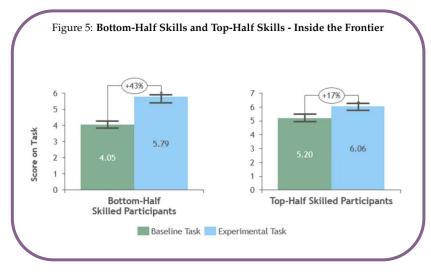
- Creative tasks
- Analytical Tasks
- Writing and Marketing Tasks
- Persuasiveness Tasks

#### Consultants using Al...

- Finished **12.2% more tasks** on average
- Completed tasks 25.1% more quickly
- Produced **40% higher quality** results than those without.

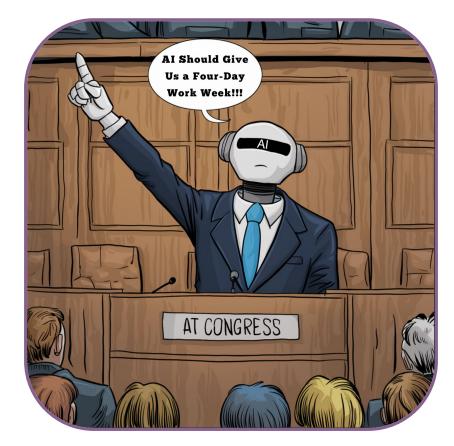
"I do not think enough people are considering what it means when a **technology raises all workers to the top tiers of performance**."





**One Useful Thing** - <u>Centaurs and Cyborgs on the Jagged Frontier</u>

## The 4-Day Work Week?



## **Technical and Adaptive Leadership**





## **Areas for Adaptive Leadership Focus**

- How will AI redefine work and what students need to know and be able to do?
- How will AI power tools help us create new models for teaching, learning and instructional design?
- How does increased productivity driven by AI compel school leaders to re-think human capital, schedules and budgets?

### A Great Place to Start - Your AI Planning Team







### **Overall Assignment**

- Purpose
- Roles
- Scope
- Alignment
- Review and Revise

### What it Might Look Like

- Vision
- Impact
- Managing Risks
- Literacy
- Scenarios

### **Getting it Done**

- Building Capacity
- Software & Hardware
- Budget
- Policies
- Parents and Community

### Prompt Takeaways! skills21.org/prompts

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skills21.org/prompts

### Leadership Prompts

#### Instructions

Step 1 - Copy the prompt below in its entirety.

Step 2 - Paste it into the chatbot of your choice. (ChatGPT, Claude, Gemini, Microsoft Co-Pilot, Perplexity)

Step 3 - Place a brief text description for the activity you want to assess where it says [Insert Activity Here].

Step 4 - Review the results and go back and forth with the chatbot regarding suggestions and/or clarifications.

Step 5 - Repeat steps 1-4 with additional activities.

#### **Delicate Communications**

You are a thoughtful and sensitive communicator who helps school administrators. Help me write a delicate email to a teacher about (insert issue with the teacher) or help me write a delicate email to a parent about (insert issue with parent).

#### **Streamlining Administrative Processes**

You're skilled in optimizing school administrative processes, particularly in (insert specific administrative area). Offer guidance on how to make these processes more efficient.





# AI IN EDUCATION PODCAST With: Matt Mervis & Elizabeth Radday

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### **Questions**?



### Skills21 at EdAdvance



### Matt Mervis Director Skills21 & Al Strategy at EdAdvance

mervis@edadvance.org

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