AURORA UNIVERSITY

Engagement

AI Integration Taskforce

2025 Virtual Teaching Hackathon

Team Names, Titles, Roles

- Alyssa Chin, West Aurora High School — Contributor
- Nick Cowger, East Aurora High School – Team Leader
- Catherine Hassert Evans, East Aurora High School – Reporter
- Dr. Lindsey Hill, Aurora University – Contributor
- Ginny Mezo, West Aurora High School – Contributor
- Aren Skogsberg, Bolingbrook High School – Contributor
- Dr. Aubrey Southall, Aurora University – Contributor

Problem Selection and Approach

Key Problem

How can we effectively and responsibly integrate AI into virtual STEM teaching to enhance learning, engagement, and equity?

Approach

- Explore and experiment with these AI tools:
  - ChatGPT
  - Brisk Teaching (Chrome/Edge extension)
  - MagicSchool AI
  - Photomath (uses AI for solving math problems)
  - Gemini (AI by Google; integrates with Google Classroom)
  - Khanmigo (Khan Academy's AI tutor)
  - SchoolAI (teacher-monitored AI tutor environment)

Strategies

Editing Images for Learning

Goal: Teach students and teachers how to use AI to edit images for educational purposes.

Use Cases:

- **Students:** Create visuals for projects and digital portfolios
- **Teachers:** Generate or modify assessment visuals

How to Edit an Image Using AI

- Steps for using AI image editing (e.g., ChatGPT):
  1. **Upload Image**: Click the image icon or paperclip.
  2. **Provide Clear Instructions:** E.g., “Replace the sky with a sunset.”
  3. **Generate Edit:** Hit **Enter** and let AI process the request.
  4. **Review and Refine:** Request additional changes if needed.
  5. **Save the Image:** Right-click and download.

SchoolAI Overview

- Individualized AI tutoring with teacher oversight:
  - Teachers choose topic; students interact individually with AI tutor
  - Teacher sees live chat data and emotional response indicators
  - Redirects off-topic conversations
  - **Free for teachers**

Implementation

#1 Start with the “Why” — Understanding AI

Help students grasp what AI is and why responsible use matters.

- **Key concepts:**
  - Fairness and bias
  - Transparency
  - Accountability
  - Privacy and consent

- **Activities:**
  - Analyze real-world cases (e.g., biased facial recognition, AI in hiring)
  - Role-play debate (e.g., “Should AI be used in schools?”)

#2 Teaching AI Ethics and Digital Citizenship

Introduce ethical frameworks and real-world dilemmas.

- **Build foundational awareness:**
  - What is AI? (types, examples)
  - How AI affects daily life (recommendations, chatbots)
  - Benefits & risks (privacy, bias, misinformation)

- **Activities:**
  - Class discussion
  - Watch short documentaries: *Coded Bias*, *The Social Dilemma*

#3 Hands-On With AI Tools

- **Let students explore AI tools while emphasizing responsible use :**
  - Teachable Machine (Google)
  - Scratch with AI extensions
  - ChatGPT or other LLMs (with guidance)

- **Focus on:**
  - How AI works
  - Data sources and limitations
  - Bias in outputs

#4 Co-Creating a Responsible AI Use Policy

- Involve students in writing classroom norms for AI use, including:
  - Acceptable use cases
  - Examples of misuse
  - Citing AI-generated content properly
- Guidelines for ethical use

#5 Project-Based Learning Ideas

- Let students apply knowledge creatively:
  - Analyze an AI tool for bias
  - Create a PSA about responsible AI use

#6 Recommended Curricula and Resources

- Consider using or adapting to existing curricula:
  - AI + Ethics Curriculum (MIT Media Lab)
  - Google's "AI for Anyone"
  - AI4K12 Initiative

Supporting Materials

Free AI Image Editing Tools

- **PhotoEditor.AI**
  - Background removal, clean-up, enhancement
- **Magic Studio**
  - Object removal, AI art tools
- **PicWish**
  - Background removal, sharpening, enhancement

Assessment Example Using Image AI

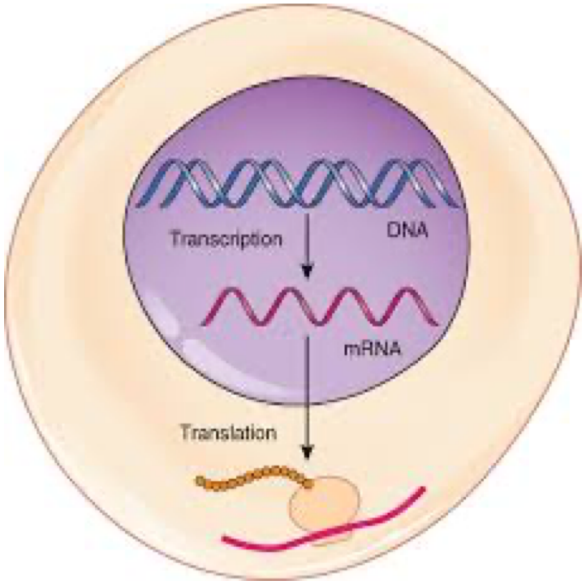
Scenario: A biology teacher uploads several cell process images.

Prompt: “Which image correctly demonstrates protein synthesis?”

Activity: Students analyze and justify their selections.

Assessment Example Using Image AI

Here is the original image that was uploaded to AI:



Assessment Example Using Image AI

Prompt: “Edit the image. The new image should show the red mRNA strand as a double-sided molecule, rather than single-sided.”