

UPDATE ON ARTIFICIAL INTELLIGENCE IN CVUSD

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OBJECTIVE



**To provide the Board of Education with
an update on artificial intelligence.**

AGENDA



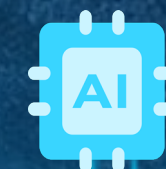
**Why use AI in
Education**



**Benefits & Risks
of AI**



**Recommended AI
Approved Sites**



**Framework for AI
Integration**



WHY USE AI IN EDUCATION





WHY USE AI IN EDUCATION



- **Personalized Learning**
- **Enhanced Student Engagement**
- **Improved Student Outcomes**
- **Efficient Administrative Tasks**
- **Global Access to Education**
- **Future-Proofing Students**



AI is:

- Online and in-store shopping
- Robotic tractors, precision agriculture
- Warehouse Fulfillment
- Credit Card Fraud Protection
- Insurance Rates
- NASA images from space
- Text to Speech
- Foreign Language Translation
- Mapping and Navigation

AI is NOT:

- Alive
- Smarter than us
- Killer robots
- Only for geniuses
- Only for people in tech cities
- Always physical. It is inside our computer software and phone apps.



Education with AI is:

- Personalized learning: More practice problems for struggling students, more advanced concepts for students who are ahead
- Differentiation in seconds
- Increased student persistence
- Handwriting conversion to digital
- Text to speech, speech to text
- Language Translation

Education with AI is NOT:

- Replacing teachers
- Going to solve every problem
- One more thing that needs to take a lot of time for busy educators
- Another subject that must be separate from other subjects

LEVERAGING AI TO ENHANCE LEARNING



- **Educational Inequality**
- **Skill Gap**
- **Missed Opportunities**
- **Ethical Concerns**

BENEFITS & RISKS OF AI



THE POTENTIAL BENEFITS



- **Personalized Learning**
- **Intelligent Tutoring Systems**
- **Automated Administrative Tasks**
- **Enhanced Accessibility**
- **Creative Tools**



RISKS OF AI USE

- Over-reliance on AI
- Potential decrease in creative and spontaneous teaching moments
- Potential for overlooking individual student circumstances and needs
- Overuse of AI tools
- Students may become passive consumers
- Risk of neglecting qualitative factors
- Algorithmic bias
- Unequal access to AI technologies



FRAMEWORK FOR AI INTEGRATION





FRAMEWORK FOR INTEGRATION

- **Policy updates:** Update our BP, AR, and AUP documents; as well as provide sample syllabus language to include responsible AI use.
- **Teacher Training:** Provide professional development to equip educators with AI skills.
- **Curriculum Development:** Incorporate AI concepts and digital citizenship into existing subjects and provide instruction to students.
- **Ethical Guidelines:** Establish and teach clear guidelines for responsible AI use.

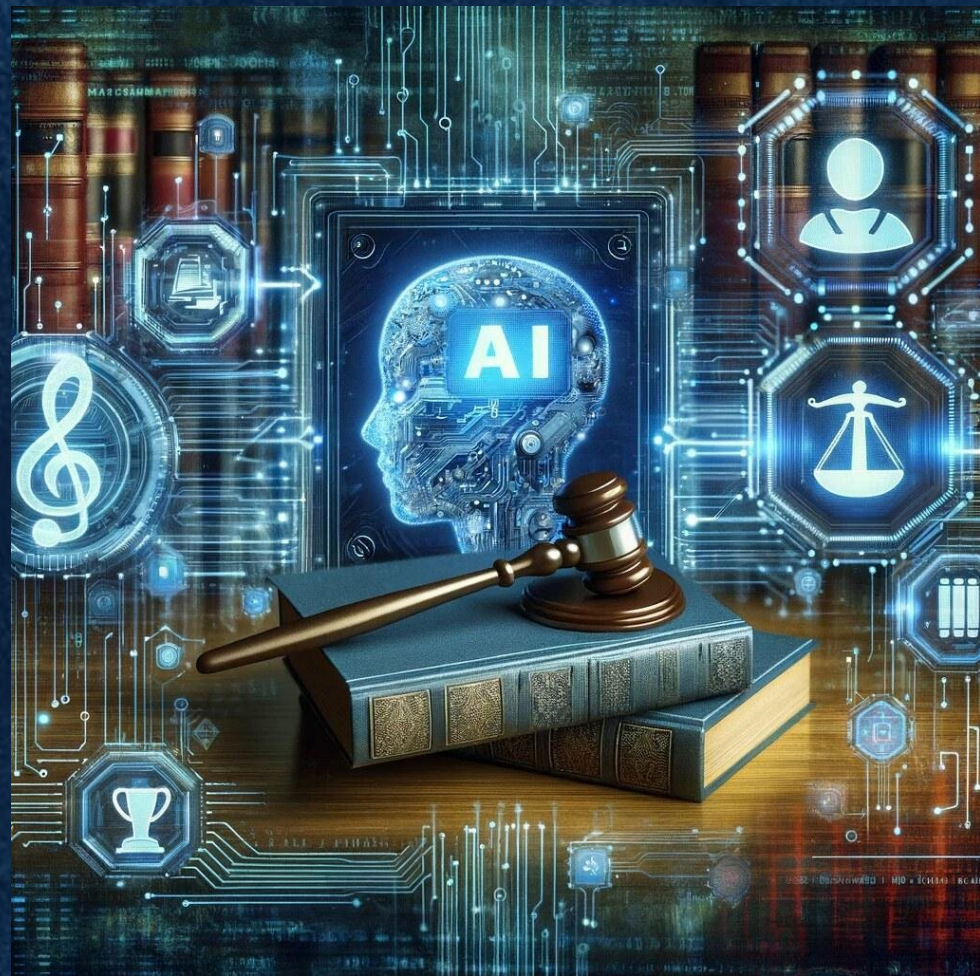


STEPS FORWARD



- **Collaboration:** Discussions with site leaders, teachers, CVUSD Technology Committee
 - **Policy updates:** Drafted policy and document updates.
 - **Teacher Training:** Designed materials and have begun scheduling Professional Learning.
 - **Curriculum Development:** Design and prepare for distribution classroom-ready materials to help teachers get started.
 - **Ethical Guidelines:** Communicate clear guidelines for responsible AI use and distribute instructional materials as needed.
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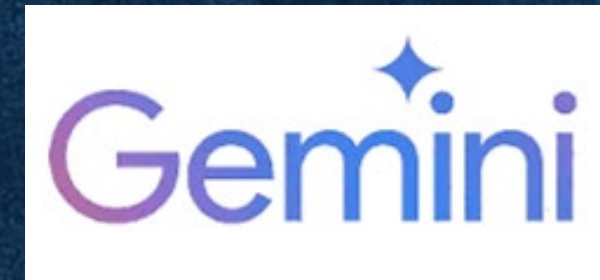
CONSIDERATIONS OF AI TOOLS



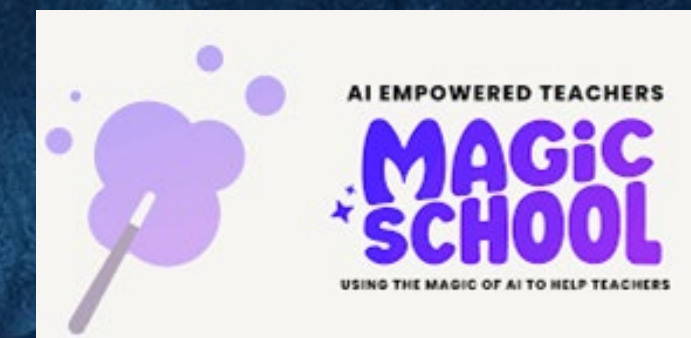
- **State and federal student data privacy laws**
- **Usage of student data by vendors**
- **Security risks**
- **Algorithmic bias**
- **Ease of use**
- **Integration into current educational technology applications**
- **Designed for educational use**
- **Assists teachers with differentiation and UDL**

AI TOOLS FOR TEACHER USE

- Khan Academy Khanmigo
- Google Gemini for Education
- Adobe Express for Education
- MagicSchool AI
- Canva for Education
- IXL – Spark Studio
- Seesaw



Adobe Express for Education



Seesaw

Spark Studio
by IXL

KHANMIGO & SPARK STUDIO BY IXL

Biology > Khanmigo Teacher Tools

Khanmigo Tools

Free AI powered tools designed to save you time and improve instruction!

Tools | My Documents

My Favorites | All Tools | Plan | Create | Differentiate | Support | Learn | Search

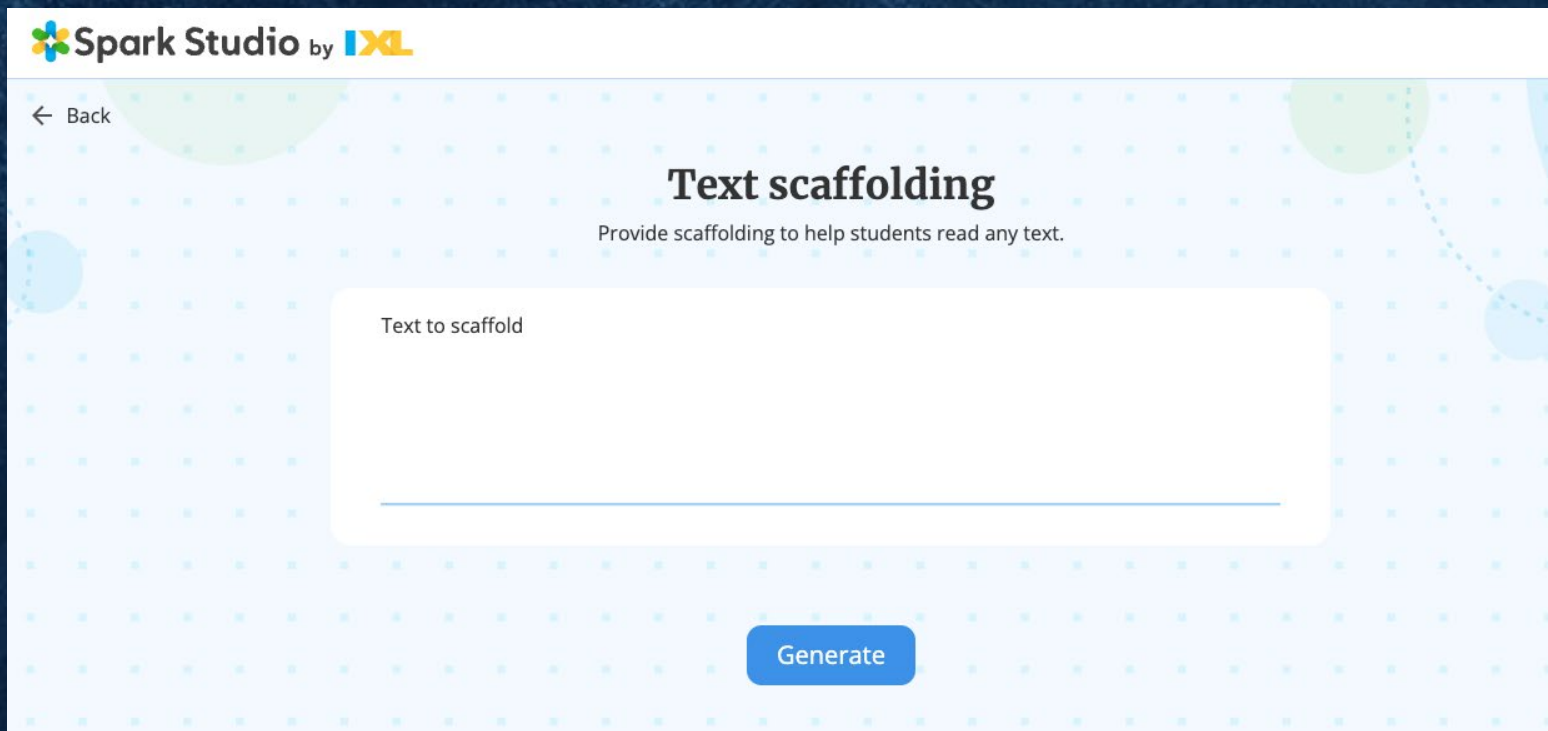
- Chunk Text**: Break complex texts into manageable sections for easier student comprehension.
- Class Newsletter**: Produce engaging newsletters to keep parents informed about class activities.
- Class Snapshot**: Review your students' performance and trends.
- Clear Directions**: Generate concise, easy-to-follow instructions for assignments and activities.
- Discussion Prompts**: Craft engaging prompts to stimulate meaningful classroom discussions.
- Exit Ticket**: Create quick end-of-lesson assessments to check student understanding.
- Fun Class Summary Poem**: Transform memorable class moments into a creative poetic recap.
- IEP Assistant**: Streamline the creation of Individualized Education Plans.
- Informational Text**: Create informational text for a variety of topics.
- Learning Objective(s)**: Develop clear, measurable learning objectives to guide instruction.
- Lesson Hook**: Plan compelling lesson starters to engage students.
- Lesson Plan**: Create structured, detailed lesson plans tailored to your curriculum and students' needs.

Spark Studio by IXL

Tool Library

- Adjust reading level**: Adjust the level of any text to best fit your students' needs.
- Lesson planning**: Develop engaging lesson plans for the topic you are teaching.
- Text scaffolding**: Provide scaffolding to help students read any text.
- Rubric builder**: Develop clear and effective grading rubrics for any assignment.
- Reading quiz**: Generate a reading comprehension quiz for a text!
- Jeopardy review game**: Create a jeopardy style game to help students practice or review any topic!
- Email draft**: Create an email to communicate with families, colleagues, and more!
- Exit ticket**: Generate effective exit tickets to check in with students!
- Choice board**: Create choice boards that provide students with a variety of ways to demonstrate their learning!
- Unpack your standards**: Break down your standards to better understand what you students need to learn.
- Math story problems**: Design math problems around a theme to foster student engagement!
- Translator**: Translate text from any language into any language.
- Make it relevant**: Support student engagement by relating class material to their interests.
- Crossword generator**: Create crossword puzzles with a common theme!
- Short story creator**: Generate engaging short stories centered around any theme or topic!
- Depth of knowledge levels**: Get ideas for supporting each Depth of Knowledge level for any topic!
- Project planner**: Plan engaging projects that inspire active learning!
- Vocabulary list**: Generate a list of vocabulary words based on a topic or text!
- Report card comments**: Generate personalized report card comments!
- Word scramble**: Create word scrambles on any topic for your
- Conceptual understanding**: Get strategies for developing conceptual

PROMPTING WITH SPARK STUDIO



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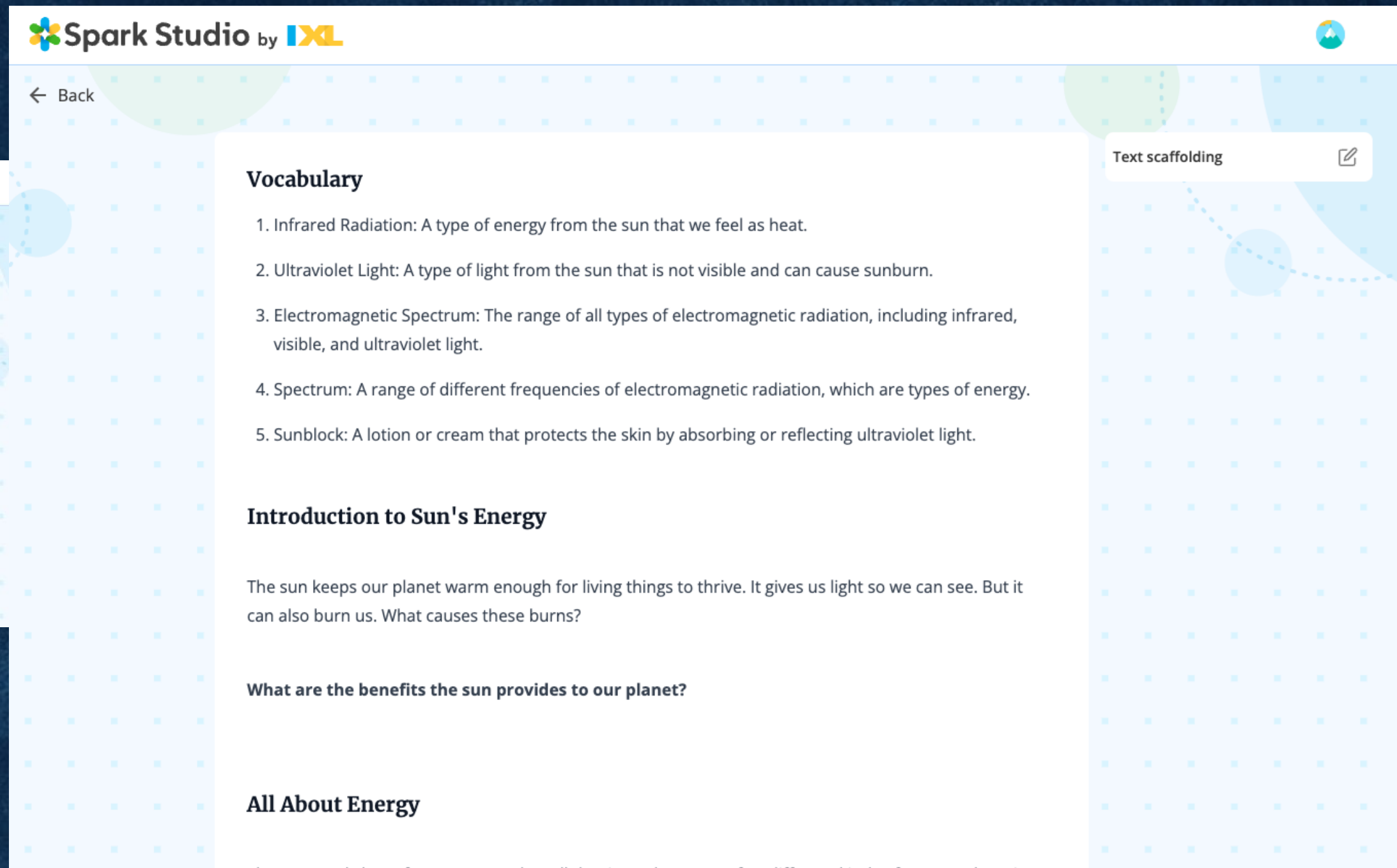
← Back

Text scaffolding

Provide scaffolding to help students read any text.

Text to scaffold

Generate



Spark Studio by IXL

← Back

Text scaffolding

Vocabulary

1. Infrared Radiation: A type of energy from the sun that we feel as heat.
2. Ultraviolet Light: A type of light from the sun that is not visible and can cause sunburn.
3. Electromagnetic Spectrum: The range of all types of electromagnetic radiation, including infrared, visible, and ultraviolet light.
4. Spectrum: A range of different frequencies of electromagnetic radiation, which are types of energy.
5. Sunblock: A lotion or cream that protects the skin by absorbing or reflecting ultraviolet light.

Introduction to Sun's Energy

The sun keeps our planet warm enough for living things to thrive. It gives us light so we can see. But it can also burn us. What causes these burns?

What are the benefits the sun provides to our planet?

All About Energy

TEACHER PROFESSIONAL LEARNING



- **In-Person PD on AI for Teachers**
- **Asynchronous Canvas Course**
- **Resource Reference Page**

ASYNCHRONOUS AI COURSE



CVUSD Artificial Intelligence (AI) ...
CVUSD Artificial Intelligence (...)

CVUSD Artificial Intelligence (AI) Basics for Education > Modules

Home
Modules
Quizzes
People
Assignments
Announcements
Discussions
Pages
Syllabus
Grades
Outcomes
Collaborations
New Analytics
Google Drive
Office 365
Edpuzzle
Badges
IXL Learning
Discovery Education
Canva for Education
Microsoft Teams

Collapse All View Progress Export Course Content Publish All + Module

- Introduction to AI for Education (Complete All Items)
- AI In Education Presentation (View)
- AI in Education (3 pts)
- Edpuzzle | What is Artificial Intelligence? | Artificial Intelligence In 5 Minutes (3 pts)

- Responsible Use of AI (Complete All Items)
- Video - AI 101 for Teachers: Ensuring a Responsible Approach to AI (View)
- AI 101 for Teachers (3 pts)
- Guide to Ensuring a Responsible Approach to AI
- Ensuring a Responsible Approach to AI (3 pts)

Model Prompts (Complete All Items)

- AI Prompt Engineering Tips for Teachers (View)
- Prompt Engineering: The Key to AI Success
- Prompt Engineering (3 pts)
- Video - Prompt Engineering for Teachers
- Writing Effective Text Prompts
- Prompt to Picture - Resource
- Edpuzzle | AI Image Generation with a Prompt Template (3 pts)

Magic School AI (Complete All Items)

- MagicSchool Training (View)
- Understanding MagicSchool AI (3 pts)
- Video - How to use MagicSchool Tools
- Understanding How to use MagicSchool Tools (3 pts)
- Video - Creating Custom Prompts in MagicSchool
- Understanding Prompts in MagicSchool AI (3 pts)

Khanmigo (Complete All Items)

- Khanmigo Teacher Tools & Canvas Integration (View)
- Video - Khanmigo Canvas Integration Dashboard
- Video - Khanmigo for Teachers
- Understanding - Khanmigo for Teachers (3 pts)

Google Gemini (Complete All Items)





QUESTIONS?