



See machine learning in action with Google Quick Draw!

What aspect of AI will this activity explore?

See a visual representation of how machine learning using data sets is an application of AI. Can a neural network learn to recognize doodling?

Help teach it by adding your drawings to the world's largest doodling data set, shared publicly to help with machine learning research.





Open up a new tab in your browser, and navigate to https://quickdraw.withgoogle.com/

Step 1: Click the

Let's Draw!

button

Step 4:

Step 2: You'll be asked to draw an item on your screen in under 20 seconds.

When you're ready, click , set It! and draw the object. Do your best! You'll hear a voice trying to guess the name of the object you're drawing.

Step 3: When your 20 seconds are up, you'll be directed to draw a second item. When you're ready, click

Got It!

, and draw the next object. You'll be asked to draw a total of 6 different objects.

- Click 'data' to visit the data set that is helping to teach the machine!
 - \downarrow to look at all of the versions of that object other people have contributed

Step 5:

Play again to see if you can

continue to draw images

the neural network is able

to recognize.

to the neural network!

See all your

• Click on O Get the data in the upper right corner to see the raw dataset and unprocessed code (If you're curious about large data)!

Reflection

PERCEPTION: To what extent was this AI tool able to perceive what you were trying to create? What additional information (if any) would the AI tool need to better understand what you were asking it to do?

Well drown!

drawings together, and if the neural

network was able guess what each

drawing was. Have any drawings the

neural network couldn't recognize?

Click on that drawing to see what the

network saw.



Classroom Application

- Get to know your students by making Identity lcons
- Help your students generate new ideas or images
- Help your students demonstrate their learning
- Support students who struggle with visual or creative learning

CA K-12 Computer Science Standards Alignment <u>S</u><u>Core Practices</u>

Core Concepts

- Data and Analysis (DA)
- Collection, Visualization, Transformation
- Inference and Models
- Algorithms and Programming (AP) Variables
- 4: Developing and Using Abstractions
- 5: Creating Computational Artifacts

ISTE Standards for Educators Alignment • 2.3.b

2.5.a





Create Identity Icons With AI Using AutoDraw

What aspect of AI will this activity explore?



AI can help people of all artistic

- Create original images.
 - Grow their creative confidence.
- Produce high-quality graphic responses.

Using AutoDraw, quickly sketch icons that connect to aspects of your identity and let generative AI "guess" the icons you've drawn. Select a shape that AutoDraw suggests, and it will replace your simple sketch with a beautiful graphic!



Open up a new tab in your browser, and navigate to www.autodraw.com



Step 1: Watch the tutorial to learn how to use AutoDraw.



Step 3: Select AutoDraw -- Notice the suggested icons in the **top** toolbar.

In each circle, AutoDraw a picture of

- a favorite activity to do in your free time.
- a **favorite season** of the year.
- a picture of **a symbol that represents your identity.**

Step 2: Go back to your page, and select the shape tool. Draw 3 circles.



Review the suggested icons in the top toolbar and select one that matches your drawing.



- Explore AutoDraw and play with the features!
- Can you fill in your images with color?
- Will AutoDraw accurately guess what you are trying to create?
- Share your completed drawing **HERE**!

Reflection

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CA K-12 Computer Science Standards Alignment **Core Practices**

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ISTE Standards for Educators Alignment 2.3.b

2.5.a





Innovate and Imagine with Da Vinci Stickies



Open up a new tab in your browser, and navigate to *bit.ly/davincistickies*

Launch experiment

Step 1: Launch the Experiment

STEP 2: Scroll across th

board and **explore**

Leonardo da Vinci's codex (collection) of



STEP 3: Click and drag two codex sketches onto the collapsed "whiteboard" towards the bottom of your screen

- See how Google Al's engine combines the two images to create a new, imaginative image of your own.
- **Do it again** until you feel like you've landed on the right-fit image for your mood.

enei

sketches.

• Click on the **TAGS** to see all the categories of the codex and explore them in depth

Download your new image and share it HERE

Reflection

REPRESENTATION & REASONING: Were you able to generate what you wanted with this AI tool? To what extent did the AI tool use machine reasoning to create a representation aligned with your expectations?

Classroom Application

Invite students to:

- explore the myths, masterpieces, and mind of Leonardo da Vinci
- write a short story or poem inspired by this machinegenerated image
- research Renaissance History and historical figures of the era
- perform how their new image is used or how it behaves

CA K-12 Computer Science Standards Alignment Core Concepts

Core Practices

- Data and Analysis (DA): Inference & Models
- Impacts of Computing: Culture
- 5: Creating Computational Artifacts
- 7: Communicating About Computing

ISTE Standards for Educators Alignment 2.3.b

2.6.c





Scribbles and Wows with Scribble Diffusior



Open up a new tab in your browser, and navigate to scribblediffusion.com/

Step 1: With your cursor or on a touch screen, scribble a design on the palette. Add as many details as you'd like to see in the finished art piece.	STEP 2: Describe your scribble in words in the text box under the palette.	STEP 3: Click Go	STEP 4: Witness the transform- ation of your scribble into art!	 Do it again! Clear the palette and start over Add details to your scribble and adjust the typed description. Copy the link to your two images and share it HERE 		
Reflection REPRESENTATION & REASONING: Were you able to generate what you wanted with this Al tool? To what extent did the Al tool use machine reasoning to create a representation aligned with your expectations?						
CA K-12 Computer Science Standards Alignment Care Concents Care Dreations Care Dreations						

- Core Concepts
 - Data and Analysis (DA): Collection, Visualization, & Transformation
- Core Practices
 - 5: Creating Computational
- Artifacts • 6: Testing & Refining Computational Artifacts
- Keep connected to all things AI at SBCEO

2.6.c .

by visiting www.sbceo.org/Al





Compile a Braindump with Goblin.Tools



Open up a new tab in your browser, and navigate to goblin.tools/Compiler

STEP 1: Think of a "big idea" or "project idea" in your personal or professional life. (Example: throw a surprise birthday party for my 70 year old father).	STEP 2: Describe your idea or project using words in the text box provided.	STEP 3: Click Turn into tasks STEP 4: Watch as your ideas become list of tasks to consider!	 Click "Send Results to Magic Todo" Hit the link "Go See"! Use the spicy pepper index to add or remove complexity in the task list. Screenshot your task list and share it <u>HERE</u>
Reflection REPRESENTATION & R you able to generate w with this AI tool? To wh	EASONING: Were hat you wanted hat extent did the		

REPRESENTATION & REASONING: Were you able to generate what you wanted with this AI tool? To what extent did the AI tool use machine reasoning to create a representation aligned with your expectations?

Classroom Application

Invite students to:

- Develop executive functioning skills as they consider how to complete assignments or projects with a task list
- Compare and contrast processes and procedures that are known with lists that 'Compiler' generates

CA K-12 Computer Science Standards Alignment

- Core Concepts
 - Data and Analysis (DA): Collection, Visualization, & Transformation

<u>Core Practices</u>

- 5: Creating Computational Artifacts
- 6: Testing & Refining Computational Artifacts

ISTE Standards for Educators Alignment • 2.3.b

• 2.5.D





EVEL

Estimate "How Long Will This Take" with Goblin. Tools

What aspect of AI will this activity explore? **FEATURING** AI can help us manage our time and break down complex tasks. **Goblin**.Tools Open up a new tab in your browser, and navigate to goblin.tools/Estimator STEP 1: Think of STEP 2: Describe the task in the text a task in your box provided. Use the spicy pepper personal or index to provide your best guess on professional life how difficult it is to focus on the vou need or task. . want to complete. STEP 4: **STEP 3:** Watch as your task Click (Example: finish





is given an estimated time to completion!



Reflection

REPRESENTATION & REASONING: Were you able to generate what you wanted with this AI tool? To what extent did the AI tool use machine reasoning to create a representation aligned with your expectations?



CA K-12 Computer Science Standards Alignment

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consider how to complete assignments or projects Compare and contrast the time estimate

Goblin. Tools provides with task times you already know for certain. How accurate are the AI estimates?

ISTE Standards for Educators Alignment 2.3.b

2.6.c

Develop executive functioning skills as they

Classroom Application

Invite students to:

with a task list

Keep connected to all things AI at SBCEO by visiting <u>www.sbceo.org/Al</u>

- Use the spicy pepper index to add or remove complexity in the task list
- Use the wand tool to • break down your tasks even more

Estimate how long it will take

Goblin.Tools can take a simple

project description and break

it down into smaller tasks,

tell me how long this is probably gonna take!"

Create a series

"Magic Todo"

of tasks in

providing an estimated time to complete each task. "Just

vou to complete a task or series of tasks, using AI.

- Use the three dot tool to add time estimates for each task
- Screenshot your expanded task list and share it **HERE**





Monthly Exploration Challenges

Try your hand at Shadow Puppetry with AI

What aspect of AI will this activity explore?

Al can engage a variety of human senses through image and technology.

FEATURING



Create shadow puppets with your hands in front of your laptop or phone camera.

Open up a new tab in your browser, and navigate to shadowart.withgoogle.com/

STEP 1: Enter either your birth date of your zodiac symbol to start the AI

STEP 2: Allow Shadow Art to access your camera. This is how the user will engage with the AI. STEP 3: Follow the outline prompt in the camera window and mimic the design with your hands.



STEP 4: Keep playing until you've matched all 12 symbols!



- Have a student model the puppets whole group and turn it into a teambuilding activity in the classroom.
- Screenshot your results and share it <u>HERE</u>

Reflection

REPRESENTATION & REASONING: Were you able to generate what you wanted with this AI tool? To what extent did the AI tool use machine reasoning to create a representation aligned with your expectations?

Classroom Application

Invite students to:

- Work in teams and help make the shapes without communicating with words.
- Research the Zodiac Symbols once they can make the puppets wiht their hands.
- Learn about American Sign Language and practice the ASL alphabet.

CA K-12 Computer Science Standards Alignment

- Core Concepts
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ISTE Standards for Educators Alignment • 2.3.b

• 2.6.c



What aspect of AI will this activity explore?

How can AI be used to visually capture our ideas and share in a safe, digital space?



Padlet's embedded "I can't draw" feature is all about boosting your creativity and giving you quick access to some awesome visual art. It's like having a little art assistant right there in your Padlets, helping you bring your ideas to life!

Open up a new tab in your browser, and navigate to "I Can't Draw" Feature inside Padlet







Add your voice to images using ChatterPix Kids!

What aspect of AI will this activity explore?

AI can help bring your personality and voice to projects in so many creative ways!



FEATURING



Chatterpix Kids can make anything talk -- pets, friends, doodles, and more. Simply take any photo, draw a line to make a mouth, and record your voice. Then share your Pix with friends and family and share a laugh or two!



Data and Analysis (DA): Collection, Visualization, & Transformation

- 5: Creating Computational Artifacts
- 6: Testing & Refining Computational Artifacts



"Say What You See" with Google Arts & culture



- Data and Analysis (DA): Collection, Visualization, & Transformation
- 5: Creating Computational Artifacts
- 6: Testing & Refining Computational Artifacts

Explore Educator Friendly AI with Magic School AI

Santa Barbara County Education Office

Al can act as an assistant to support personalized learning, break down complex tasks, and generate new ideas.



Use MagicSchool to help lesson plan, differentiate, write assessments, assist with UDL, make suggestions for IEPs, communicate clearly, and more.

Free Account

Needed

Click on this link to learn

https://www.magicschool.

Magic School Al's YouTube

Check out instructional video or

real educators using the tool on

more about all of the MagicSchool AI tools:

ai/magic-tools

Channel.

Open up a new tab in your browser, and navigate to https://www.magicschool.ai/

STEP 1:

STEP 2:

Make a free account.

Navigate to "Magic Tools" and scroll through all of the Tools that are currently available. Choose a Tool!

STEP 3:

Follow through with the prompts inside the Tool, and run them.

Consider: What about the Tool did you appreciate? What questions do you have about the Tool?

Professional Learning Application

Notes:

- Use the Colleague Song Generator to celebrate someone on staff who has gone above and beyond and deserves a shout out!
- Click on the "Resources" tab at the top of the website to explore Use Cases. Have your team select a role on campus and check out different ways they might use this. Teams can share out and inspire each other.

CA K-12 Computer Science Standards Alignment

Core Concepts

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ISTE Standards for Educators Alignment

- 2.3.b
- 2.6.c

California Professional Standards for Education Leaders

• CPSEL 2, 4

Converse with an AI Assistant with ChatGPT 3.5

Santa Barbara County Education Office

Al can act as an assistant to support, inspire, and make information clear.

FEATURING



Use ChatGPT as a thoughtpartner to generate, communicate, evaluate, synthesize, or streamline. The better your prompt, the better the response... always go beyond your "first draft!"

Open up a new tab in your browser, and navigate to https://chat.openai.com/

STEP 1:

STEP 2:

box.

Make a free account.

Locate the "Message ChatGPT"

Free Account Needed

STEP 3:

Enter the following prompt into the box. See what's generated!

Act as a principal who is going to a recruitment fair for new staff. Our school mission, vision, and values are <copy/paste them in>. Our current priorities as a school are <copy/paste them in>. Generate a list of interview questions that align with our mission, vision, values, and current priorities.

Professional Learning Application

- Suggest that educators use ChatGPT 3.5 to brainstorm lesson ideas, expand their creativity during unit planning, explore potential strategies for differentiation, generate assessment questions, compose rough drafts of community communication, and more!
- Using advanced prompt engineering, ChatGPT 3.5 can help summarize non-confidential reports and PDFs, critique your thinking, help you prepare for hard conversations, create rubrics or walkthrough tools, and more!

CA K-12 Computer Science Standards Alignment

Core Concepts

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STEP 4:

Continue to ask questions of the Chatbot, based on its response. Practice improving on your original prompt.

Craft your own prompt to use in ChatGPT 3.5 that gives the bot a role, a task, and some requirements that you want the bot to follow in the response.



- Take **the same** prompts and questions and run them through other Chatbots with different neural network datasets.
 - Microsoft Co-Pilot
 - Anthropic's Claude
 - Perplexity
- Compare and contrast the chats!

ISTE Standards for Educators Alignment

• 2.3.b • 2.6.c

> **California Professional Standards** for Education Leaders

CPSEL 4

Activate Your Creativity with SchoolAI

Santa Barbara County Education Office

AI offers creative thoughtpartnership when you need a little extra inspiration and idea generation!

FEATURING

school 20

Use SchoolAI to act as a creative thought-partner as you integrate AI. Get students using chatbot-powered experiences with *Spaces*. Manage, moderate, and steer how students use AI with *Mission Control*. Experience custom chatbots that let you dive deeper into themed chats.

Free Account

Using the menu at the top of the webpage,

navigate to "Discover."

Scroll down to find the

celebration months?

"Featured Collections." Explore

the different History features where you can chat with people throughout history! How might

you be able to use any of these

features for any of our school

Open up a new tab in your browser, and navigate to <u>https://app.schoolai.com/</u>

STEP 1:

STEP 2:

Make a free account.

Navigate to the "Assistants" section of SchoolAI.

STEP 3:

Select an "Assistant" and interact with it!

Consider: What about the Assistant did you appreciate? What questions do you have about the Assistant?

STEP 4:

Continue exploring other "Assistants". What happens if you ask the same question to different Assistants?

Professional Learning Application

Notes:

- Use SchoolAI to create inclusion activities, bell ringers, or exit tickets for staff meetings inside a custom Space.
- Consider how the Assistant feature can help you generate alternative ideas when providing teacher feedback.
- Check out the tutor features with your staff with critical eyes.

CA K-12 Computer Science Standards Alignment

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ISTE Standards for Educators Alignment

• 2.3.b

• 2.6.c

California Professional Standards for Education Leaders

• CPSEL 2, 4

