

IF YOU LIKED  
THE MOVIE  
THEN ....  
YOU'LL LOVE  
THE BOOK



bit.ly/trmscool

My Strengths:  
Futuristic  
Arranger  
Strategic  
Belief



**COOL**  
LAGUNA BEACH  
UNIFIED SCHOOL DISTRICT

Celebration of  
Our Learning

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Thurston Middle, 8th grade

# AI in Education

January 8, 2026



LAGUNA BEACH  
UNIFIED SCHOOL DISTRICT

# What is AI: Opportunities and Risks

## Opportunities



Content development and differentiation



Assessment design and timely, effective feedback



Tutoring and personalized learning assistance



Aiding creativity, collaboration, and skill development



Operational and administrative efficiency

## Risk

Plagiarism and academic dishonesty

Diminished student and teacher agency and accountability

Compromised student privacy and unauthorized data collection

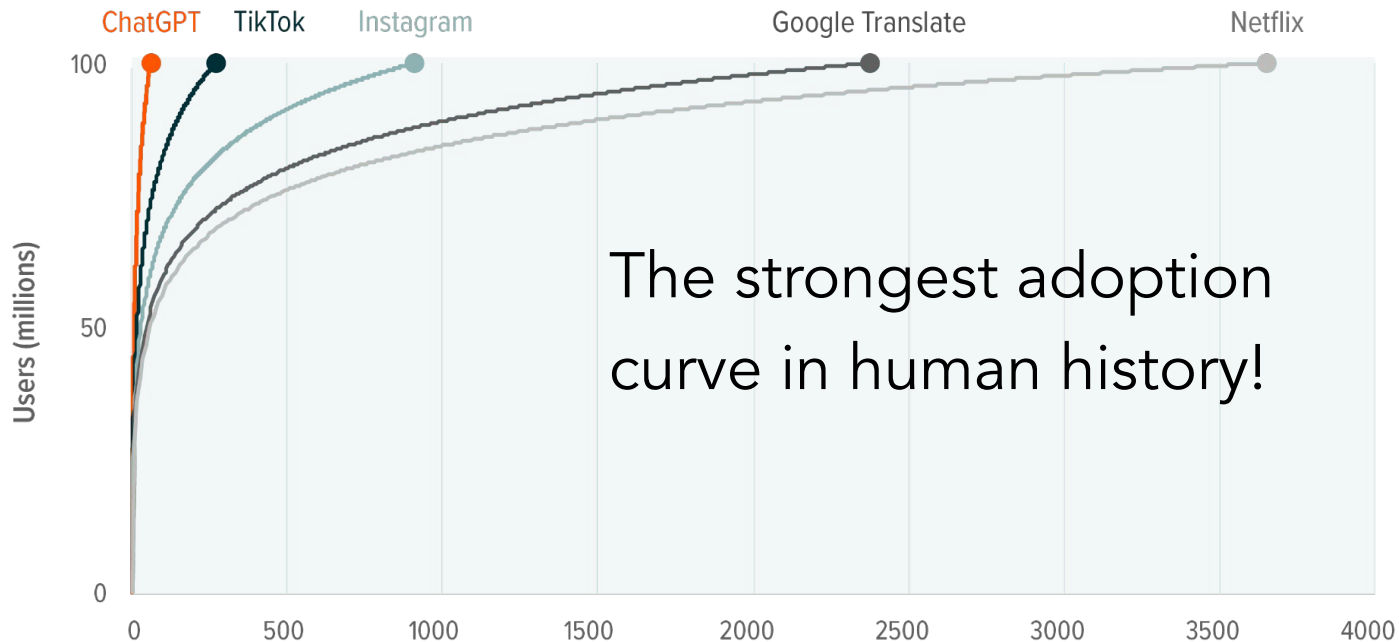
Overreliance and loss of critical thinking

Perpetuating societal bias

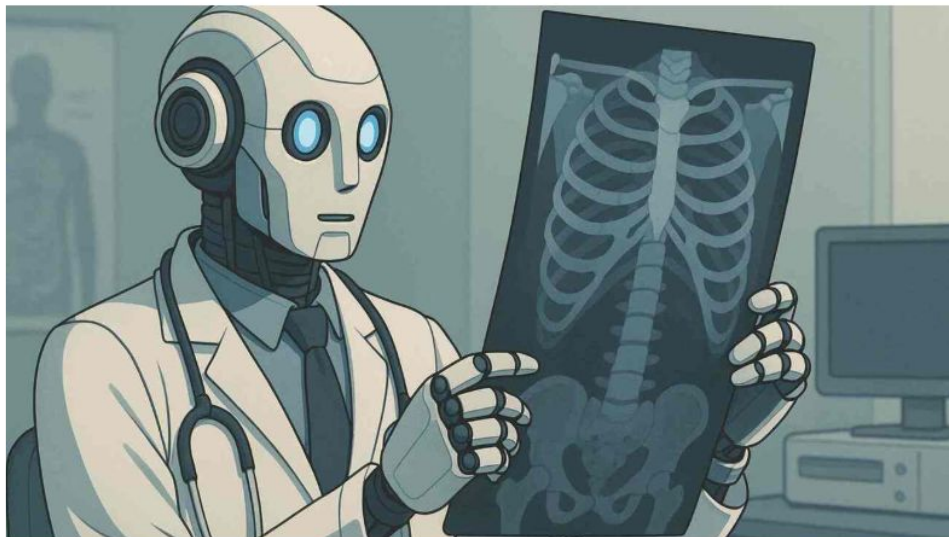
# AI Growth

## TIME IT TOOK COMPANIES TO REACH 100 MILLION USERS

Sources: Global X ETFs with information derived from: BBC News. (2018, January 23). Netflix's history: From DVD rentals to streaming success; Cerullo, M. (2023, February 1). ChatGPT user base is growing faster than TikTok. CBS News.



## Microsoft unveils AI that's 4x more accurate than doctors



Microsoft's new medical system can boost accuracy by 4x. Image Source: GPT-4o

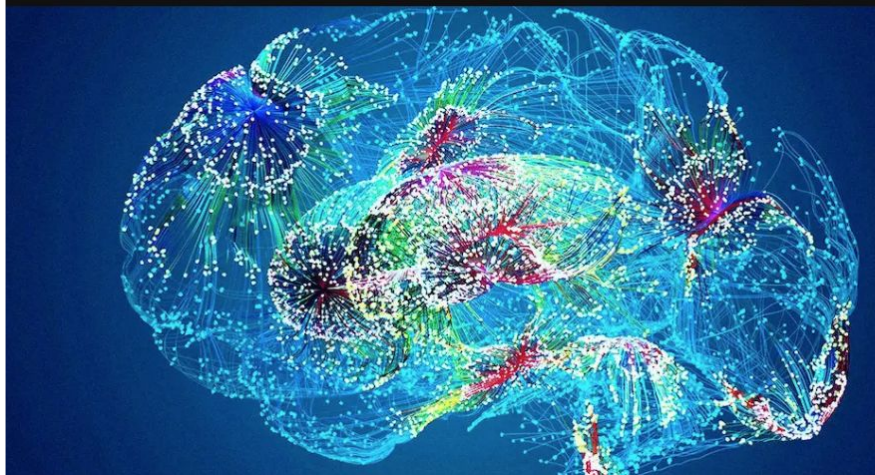
Promising Results: Using this method, the AI system was able to land on the correct diagnosis about 80% of the time, compared to just 20% for a panel of human doctors.

## Med-Gemini: "Basilar Ganglia"

AUG 6, 3:19 PM EDT / BY VICTOR TANGERMANN

**DOCTORS HORRIFIED AFTER  
GOOGLE'S HEALTHCARE AI  
MAKES UP A BODY PART THAT  
DOES NOT EXIST IN HUMANS**

"WHAT YOU'RE TALKING ABOUT IS SUPER DANGEROUS."



# MIT Study (The small study that was headline news.)

**Study Details:** MIT researchers tracked 54 students over 4 months using brain scans (EEG) to measure neural activity across three groups: ChatGPT users, search engine users, and no-tool users.

-  **Brain Activity Decline**

Students using ChatGPT showed significantly weaker neural networks and reduced brain connectivity compared to those working without AI tools.

-  **Memory & Ownership Loss**

ChatGPT users couldn't quote their own work minutes after writing it and claimed only "50% authorship" of essays they'd written.

-  **Cognitive Performance Drop**

Even "strategic" users who only used ChatGPT for structure or grammar showed declining cognitive performance over time.

-  **Timing Matters**

Students who built cognitive skills FIRST, then used AI, showed enhanced brain activity. Those who started with AI struggled even when the tool was removed.

# MIT Study (The small study that was headline news.)

## **Key Insight: Cognitive Protectionism**


The brain reallocates resources away from tasks it doesn't regularly perform. Like muscle atrophy, cognitive abilities decline when AI handles the mental heavy lifting. Building thinking skills first is crucial for effective AI collaboration.

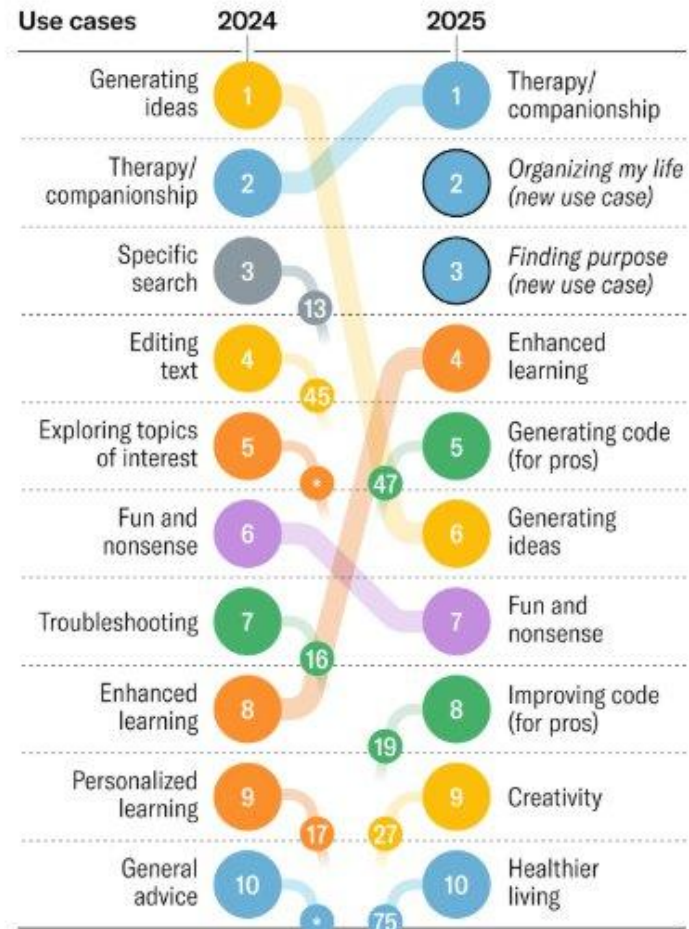
Source: MIT Media Lab (2025) • Full study: *Your Brain on ChatGPT: Accumulation of Cognitive Debt when Using an AI Assistant*

# Top 10 AI use Cases

The top 10 gen AI use cases in 2025 indicate a shift from technical to emotional applications, and in particular, growth in areas such as therapy, personal productivity, and personal development.

## Themes

|  |  |
|--|--|
|  PERSONAL AND PROFESSIONAL SUPPORT |  TECHNICAL ASSISTANCE AND TROUBLESHOOTING |
|  CONTENT CREATION AND EDITING      |  CREATIVITY AND RECREATION                |
|  LEARNING AND EDUCATION            |  RESEARCH, ANALYSIS, AND DECISION-MAKING  |

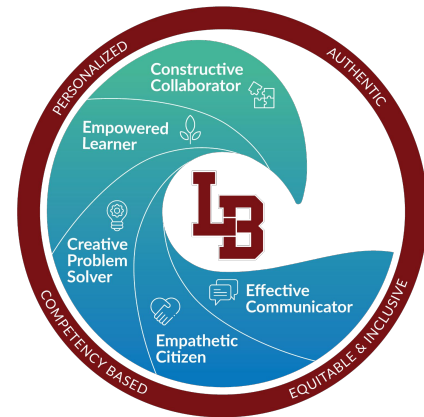


<https://hbr.org/2025/04/how-people-are-really-using-gen-ai-in-2025>

# AI in Education: A Human-Centered Endeavor

*In K–12 education, learning starts with human inquiry and should end with human reflection, human insight, and human empowerment. A human-centered AI learning environment is one that prioritizes the needs, abilities, and experiences of students, educators, and administrators by:*

- Developing students' AI literacy
- Ensuring ethical, equitable, and safe use of AI
- Providing professional development
- Applying human-centered design principles
- Aligning AI solutions with the best practices and principles of learning



# Teacher Survey (Teachers)

## How often do you allow students to use Artificial Intelligence Tools (AI)?

|   |           |            |                |
|---|-----------|------------|----------------|
| ■ | Daily     | <b>1%</b>  | (1 Responses)  |
| ■ | Monthly   | <b>21%</b> | (19 Responses) |
| ■ | Never     | <b>47%</b> | (42 Responses) |
| ■ | Quarterly | <b>16%</b> | (14 Responses) |
| ■ | Weekly    | <b>15%</b> | (13 Responses) |

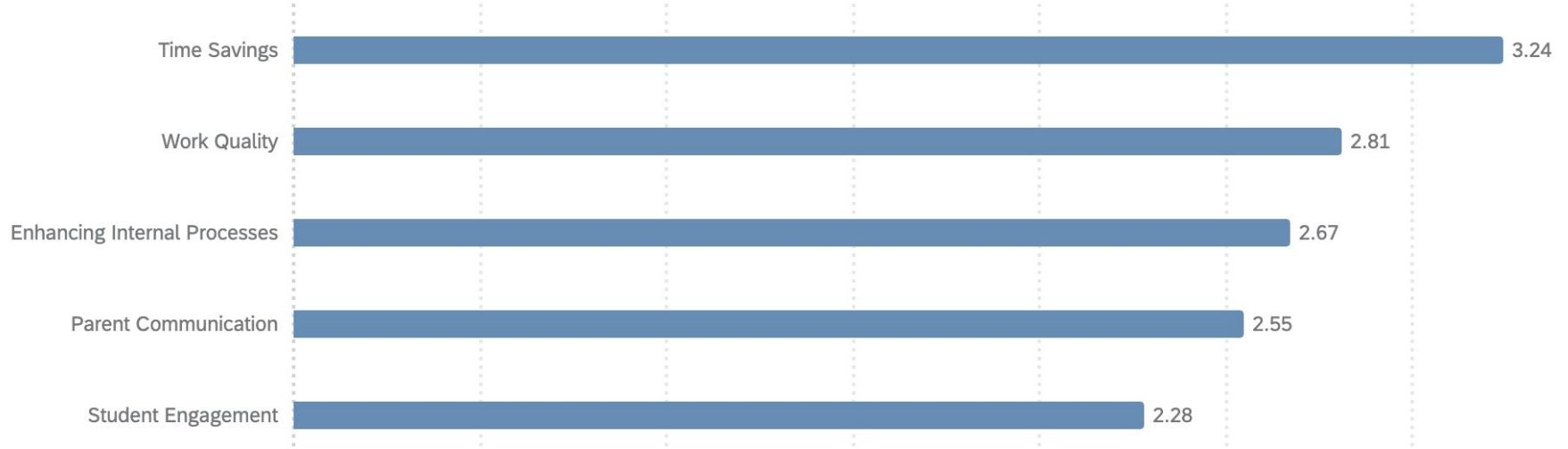
# Teacher Survey (May 2025)

Impact: How has ChatGPT helped your work? Average Rating from 1-5 (1 = No impact, 5 = Big impact).

104



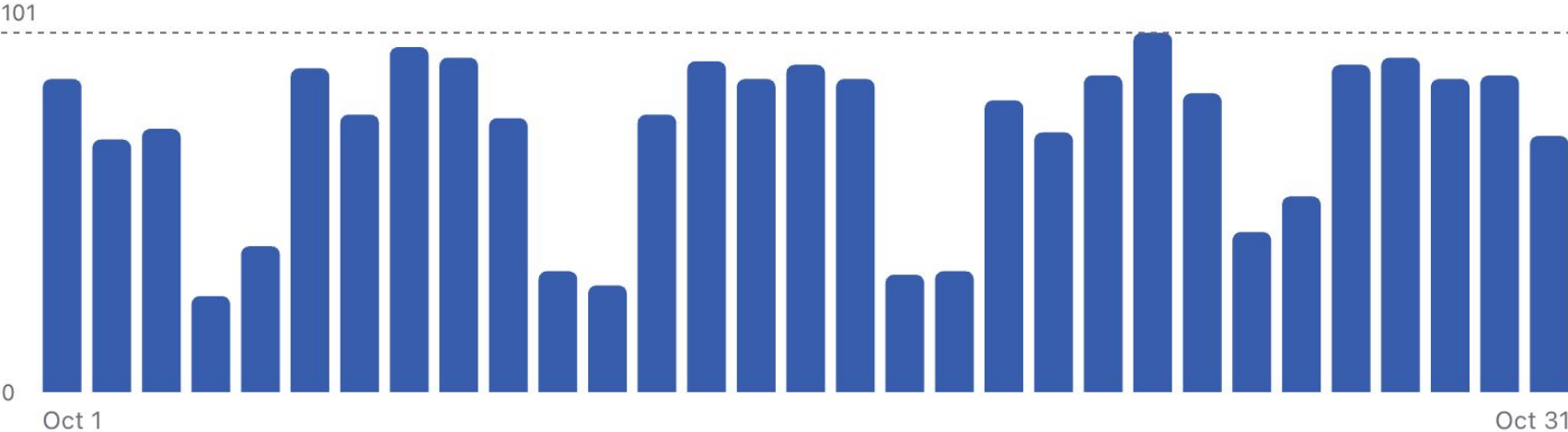
[Back to top](#)



# Open AI Staff Usage Statistics (October 2025)

Daily unique active users

**191** ↑ 6%



# Implementation Philosophy

- You must play with AI. Focus on being human.
- Be honest.
- Students must use it. Listen to our students.
- Use it it be efficient and effective.

# Staff Training

- Job-Specific Professional Learning
  - Tech Leads & Tech TOSAs
  - Teacher Librarians
  - Admin Team (every meeting at least 10 minutes)
- Choice Professional Learning
  - AI Empowered Educators (PD series)
  - AI Empowered Classified Staff (PD series)
  - On-Your-Own Learning
  - Lunch & Learns
  - District PD Day

# Teens Use of AI

- Parent usage is about half of adolescents use
- Upcoming Family Resource Center (FRC) workshops



## LEARNING

69% of teens reported that AI helped them learn something new



## PROBLEMS

Less than 6% said AI tools created problems for them, such as conflicts

## USAGE



### ENTERTAINMENT

**72%** use AI for entertainment



### HOMEWORK

**63%** use AI for homework



### CLASSWORK

**40%** use AI for classwork

The logo features the text "AI TRUST YOU" centered between two large L-shaped brackets. The left bracket is dark red, and the right bracket is blue. The text "AI TRUST" is in a dark red, sans-serif font, and "YOU" is in a blue, bold, sans-serif font.

AI TRUST **YOU**

# AI Detector Problems

- They are easy to fool.
- Stanford study shows that they produce raised percentages if you an english language learner.



# AI Trust You - Development

- Stanford research showed students felt guilt and teachers were suspicious
- Student and staff feedback showed we needed a more up front approach to the problem.
- DEMO Student/Teacher



# AI Trust You - Demo



# AI Trust You - Who is using it?

300 Districts  
375,000 Installs

# Animal Adaptations

*Axolotl*

## Habitat

Lakes in Mexico City

## Structural Adaptations

They have four legs and webbed feet. Feathered gills help them breathe underwater.

## Behavioral Adaptations



My Creature

Animal #1

Animal #2

Animal #3

# Animal Adaptations

## Habitat

India, Asia, rainforest, and grasslands

## Structural Adaptations

Sharp claws help to catch prey.

## Behavioral Adaptations



# Animal Adaptations

## Butterfly

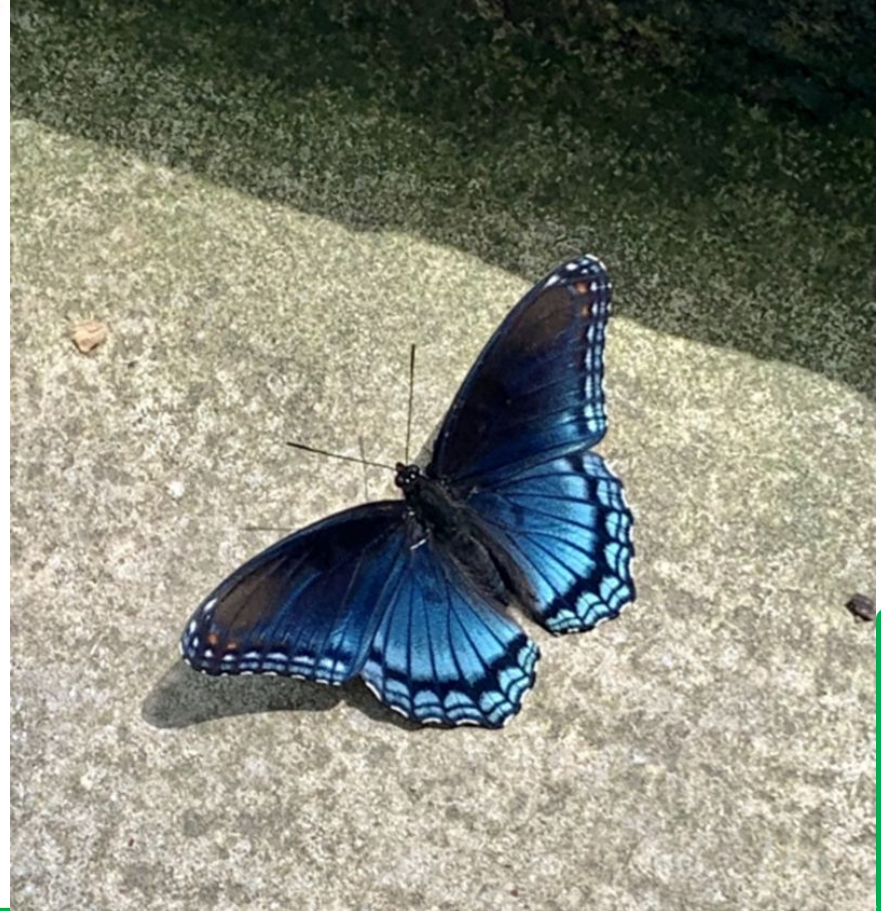
### Habitat

Mexico, Central Africa, and South America rainforest

### Structural Adaptations

The top of their wings look blue. Their wings have tiny scales that reflect blue light.

### Behavioral Adaptations



# My Own Creature

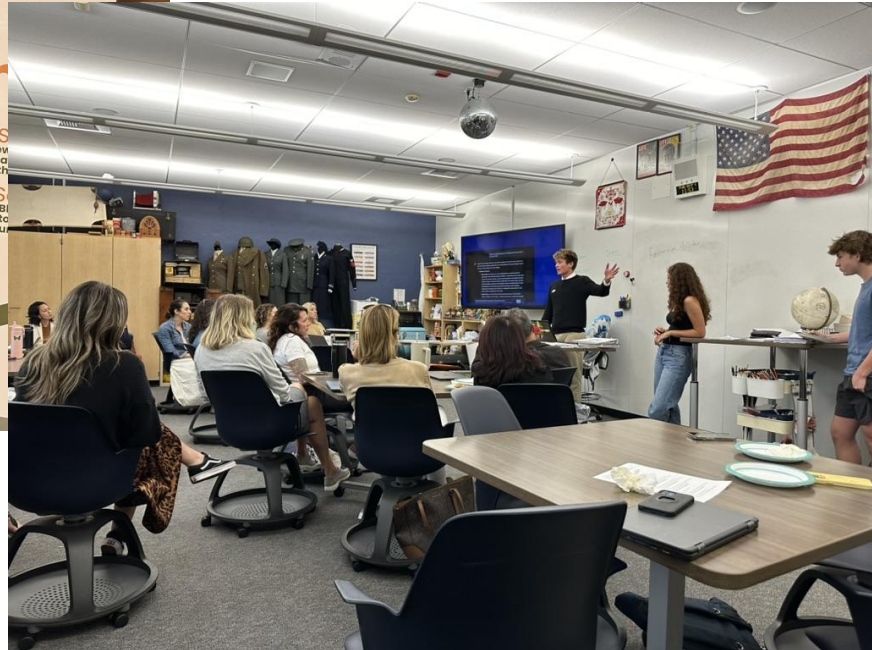


## Axogerfly

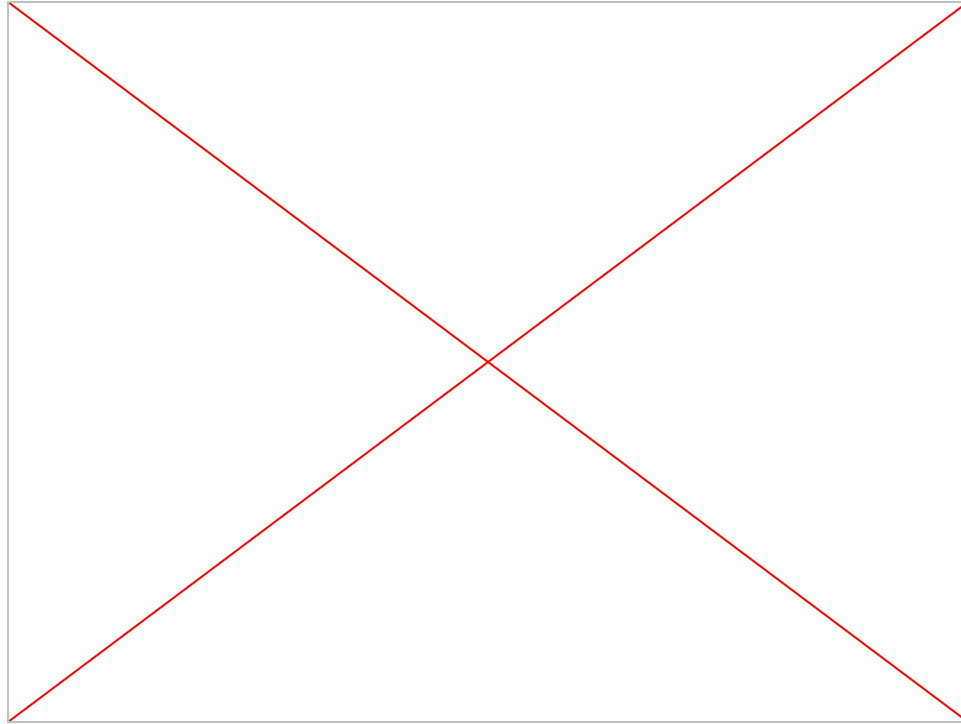
A new creature has been discovered on May 2 2025 in Hawaii by a student who went on vacation with her family to Hawaii. This animal is called the Axogerfly. If you look closely it's a hybrid of an axolotl, tiger, and butterfly. The Axogerfly is perfectly adapted to live and survive in Hawaii. When it swims, it uses the **feathered gills** like an axolotl to help it breathe underwater. To help catch prey it uses **sharp claws** like a tiger. It uses its butterfly **wings** to fly away from predators. With all these adaptations, the Axogerfly is well prepared to survive in its environment.



# We Listen to Our Students



# Student Uses AI in Spanish



# Student Uses Snorkl


Kim, Jim, and Ken each buy the same size candy bar. Kim eats  $\frac{1}{2}$  of her candy bar. Jim eats less than Kim. Ken eats more than Jim.

Draw a picture to explain and write two fractions for both Jim and Ken to show how much of their candy bar they ate.



# Student Uses Snorkl

Mrs. Hosokawa found 14 crayons on the floor on Monday. On Tuesday she found 11 crayons on the floor. How many crayons did she find in all? Use a drawing to share how you solved the problem.  
(18, 19) (34, 32)



1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 crayons on Monday.

0:52 / 3:12

### Feedback

**Snorkl AI**

Answer: **Correct** Explanation: **3/4 - Strong**

0:47  
I like how you drew dots to represent the crayons and counted them carefully! 🌟 This visual approach helps make the problem clearer.

1:23  
Great job explaining that you need to add the crayons together to solve the problem! 📚 You showed good understanding of what operation to use.

2:15  
You set up the equation correctly with  $14 + 11 = 25$ . 🌟 Could you explain how you

Type a comment on this response

0:37 Private Send

# School AI Example

schoolai

Launchpad

Spaces ▾

Tools

Assistants

Organize



Unlock Early Access Features



Launch a Space



## Love of Learning

Started Feb 16, 2024, 6:26 AM

+ Add tag



Invite



Pause



End



## 12 Participants



Search names and chats

A-Z

Groups



NAME



HEADLINE

A

Andy

Quadratics



Andy is just getting started.



A

Andy

Photography



Andy is just getting started.



CR

Carrie Rabay

Precipitation, condensation, evaporation



Carrie Rabay is just getting started.



CR

Carrie Rabay

my teacher is teaching me the order of o...



Carrie Rabay is just getting started.



### Michael Keller

The student is interested in researching the history of running shoes.

### Andy

Andy is focusing on algebra and specifically quadratics.

### Andy

Is focusing on algebra.

### Andy

The student is excited to discover new connections between their interests and the learning material.





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**Thank You**