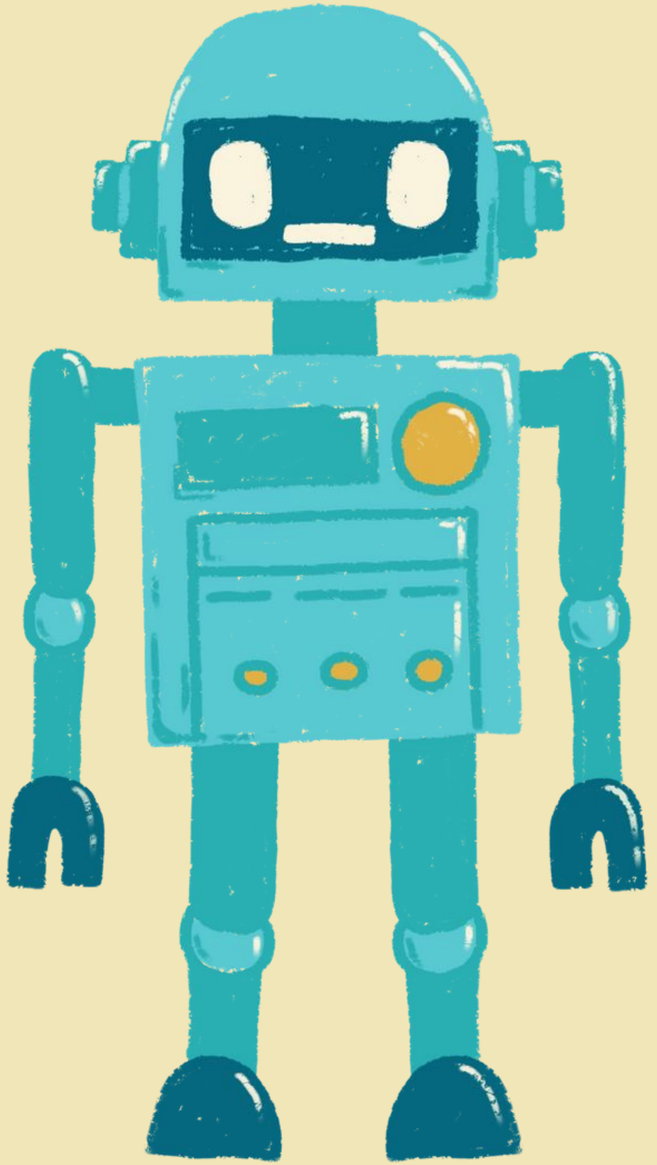
Hacking Assessment in the AI Age



Who am I anyway?

Jamie Mitchell

Been engaged with AI since chatGPT launched

Exploring uses with students

Traininig HDSB teachers on incorporating it in their classrooms

TL;DR

AI is here

Today is the worst version of AI students will have access to

We have to adapt our assessment to meet the abilities of AI

Your AI Pulse

1





2



3



4



5



6




M.P.I.
W50
TIGER SPORT



What's going on here?



What does it take to qualify for the Boston Marathon?

Curriculum Expectations

QUALIFY FOR THE BOSTON MARATHON

ATHLETES MUST MEET TIME STANDARDS WHICH CORRESPOND TO AGE AND GENDER

- Qualifier Registration for the 2025 Boston Marathon has closed, having taken place over five days, September 9-September 13, 2024 within the B.A.A.'s online platform, **Athletes' Village**.
- For the 2025 Boston Marathon, the qualifying window began on September 1, 2023 and was open through September 13, 2024.
- The 2025 Boston Marathon "Cut-Off" time was 6 minutes, 51 seconds. To be accepted into the 2025 race, athletes must have run at least 6:51 faster than their respective qualifying standard (below).
- 36,393 applications were received during the registration period for qualifiers, a race
- 24,069 qualified applicants have been accepted to date or are in the process of being accepted, pending verification of their qualifying performance.
- 12,324 qualifier applicants were unable to be accepted into the 129th Boston Marathon.

2025 BOSTON MARATHON QUALIFYING TIMES

Age Group	MEN	WOMEN	NON-BINARY
18-34	3hrs 00min 00sec	3hrs 30min 00sec	3hrs 30min 00sec

Social Pressure

Her boss was so impressed with her NYC performance that he offered to assist financially with training and cover her entry into the Boston Marathon.

Rosie in the Media

“‘So you improved from 2 hours and 56 minutes to 2 hours and 31 minutes?’ the interviewer, Kathrine Switzer, a TV commentator who had gained fame as one of the first women to run in the Boston Marathon, asked incredulously.

‘I trained myself,’ Ruiz replied, without explaining further.

She then appeared not to understand Switzer’s questions about interval training — workouts designed to improve a runner’s speed” (*New York Times* article).

Rosie in the Media

“‘Rosie Ruiz, the mystery woman winner — we missed her at all our checkpoints,’ Switzer said as Ruiz stood by, a laurel wreath on her head.”

Rosie in the Media

Ruiz's claim about the New York race quickly unraveled.

Susan Morrow, a freelance photographer, came forward to tell The New York Times that she had been on the subway with Ruiz during the marathon and that Ruiz had told her that she had dropped out at the 10-mile mark with an injured ankle.

...She never did

Rosie Ruiz, Boston Marathon course-cutter, dies at 66

Rosie Ruiz vowed to run the Boston Marathon again, just to prove that she could do it. She never did.



In the context of growing success

The primary purpose of assessment and evaluation is to improve student learning.

What parallels are you seeing?

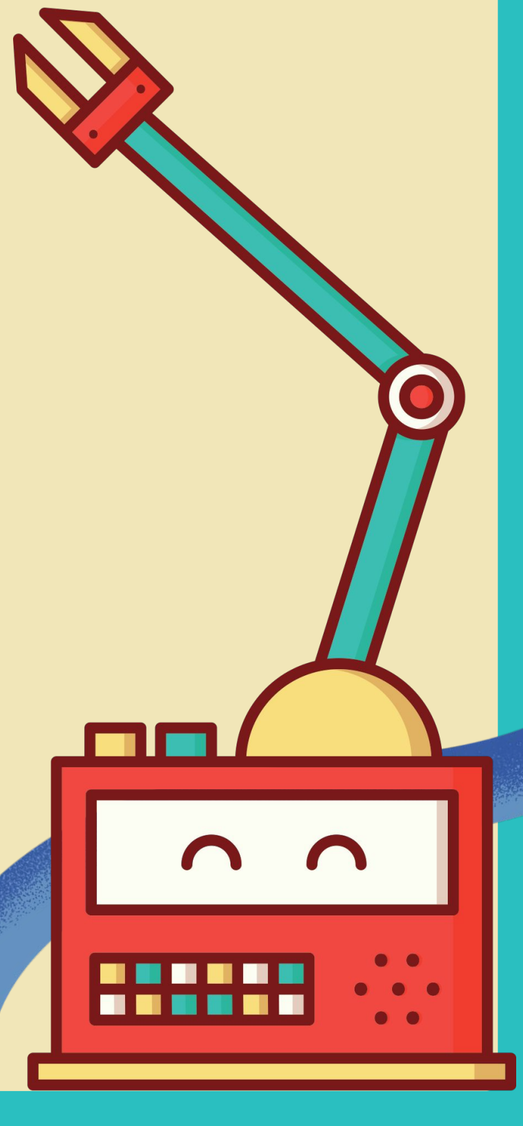
What are we talking about?

Artificial Intelligence

- Not brand new
- Imitates humans
- Programs not robots

Generative AI

- Creates something “new”
- Input to Output
- Chatbots + way more



Integrity

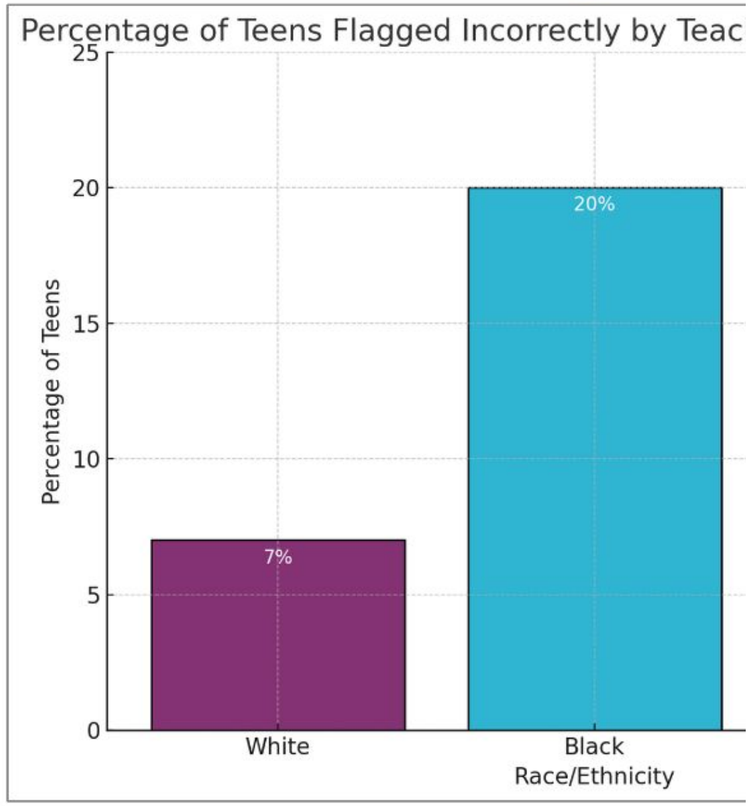


Moira Olmsted was accused of using AI to write an assignment. *Photographer: Nick Oxford/Bloomberg*

Businessweek | The Big Take

AI Detectors Falsely Accuse Students of Cheating—With Big Consequences

Black teens are twice as likely to have their work falsely flagged as AI-generated

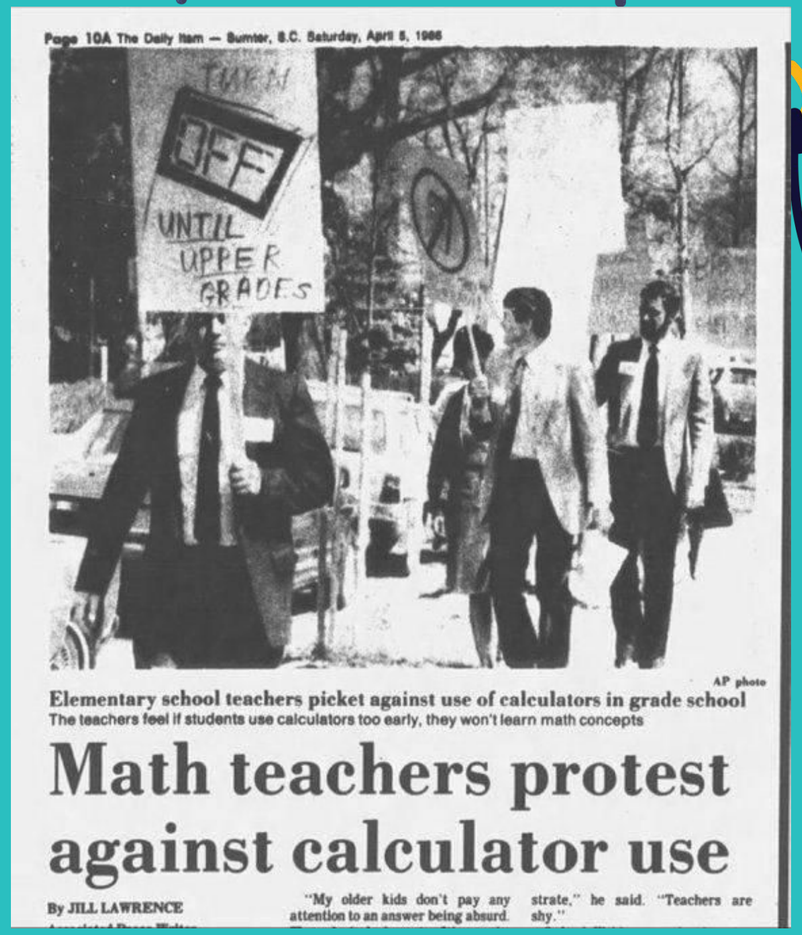




Parents sue high school after son punished for using AI on paper

3 weeks ago

NewsNation



Page 10A The Daily Item — Sumter, S.C. Saturday, April 5, 1986

AP photo

Elementary school teachers picket against use of calculators in grade school
The teachers feel if students use calculators too early, they won't learn math concepts

Math teachers protest against calculator use

By JILL LAWRENCE

"My older kids don't pay any attention to an answer being absurd. strate," he said. "Teachers are shy."

Historically, technology has arrived that has made us afraid.

How do we respond to generative AI in a way that isn't driven by fear?

What is your Framework?

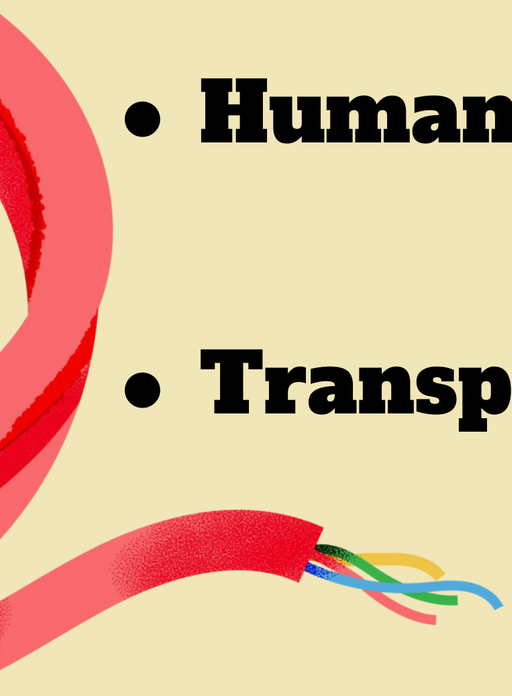
HDSB AI Guidelines

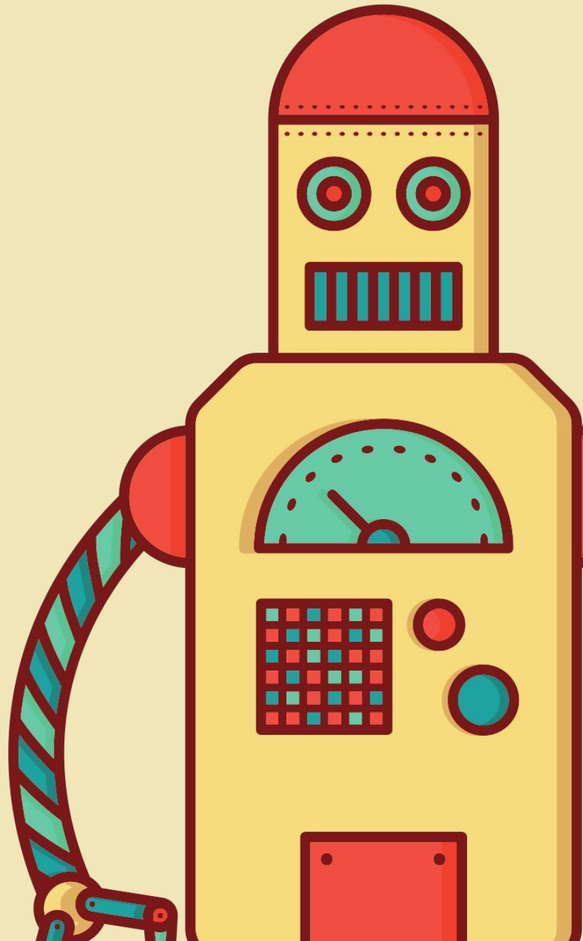




HDSB AI Guidelines

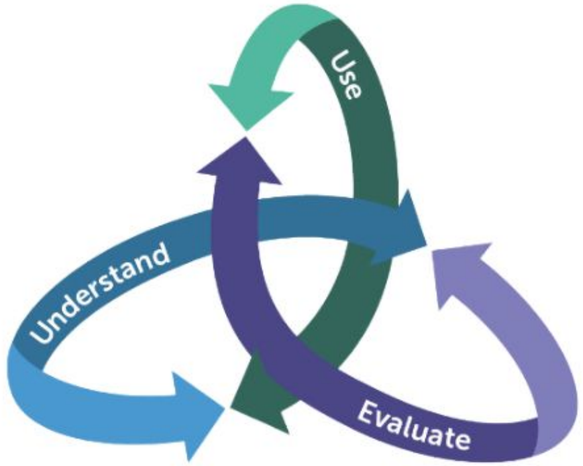
- **AI Can Enhance Student Learning**
- **Equity, Inclusion and Human Rights**
- **Human Connections and Well Being**
- **Transparency, Integrity, Responsible Use**





"AI literacy includes the knowledge and skills that enable humans to critically **understand**, **use**, and **evaluate** AI systems and tools to safely and **ethically participate** in an increasingly digital world."

Digital Promise AI Literacy Framework



AI Literacy Framework

Digital Promise

Understand

- What AI is and what it is not,
- How it works,
- Potential benefits & risks

Use

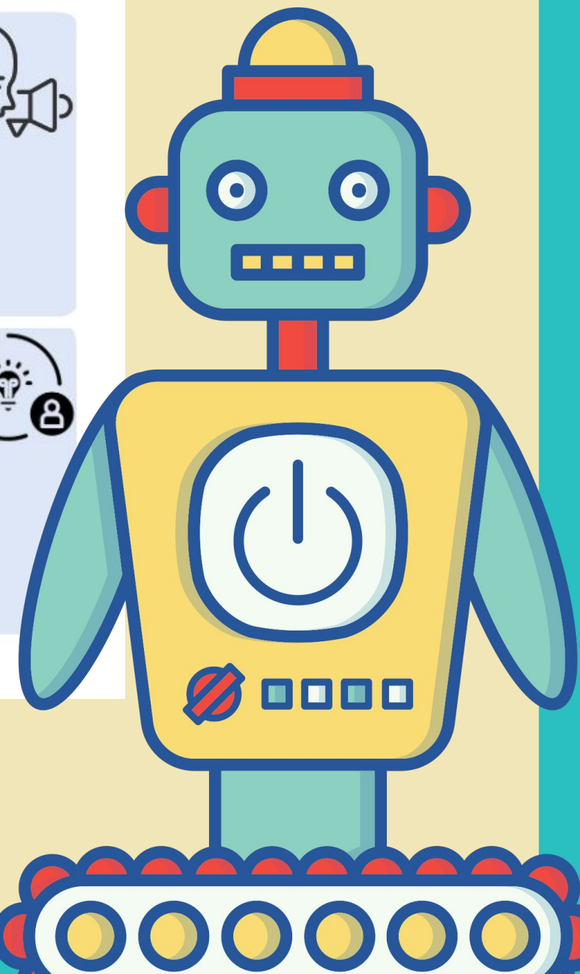
- Effectively and responsibly use AI tools and technologies

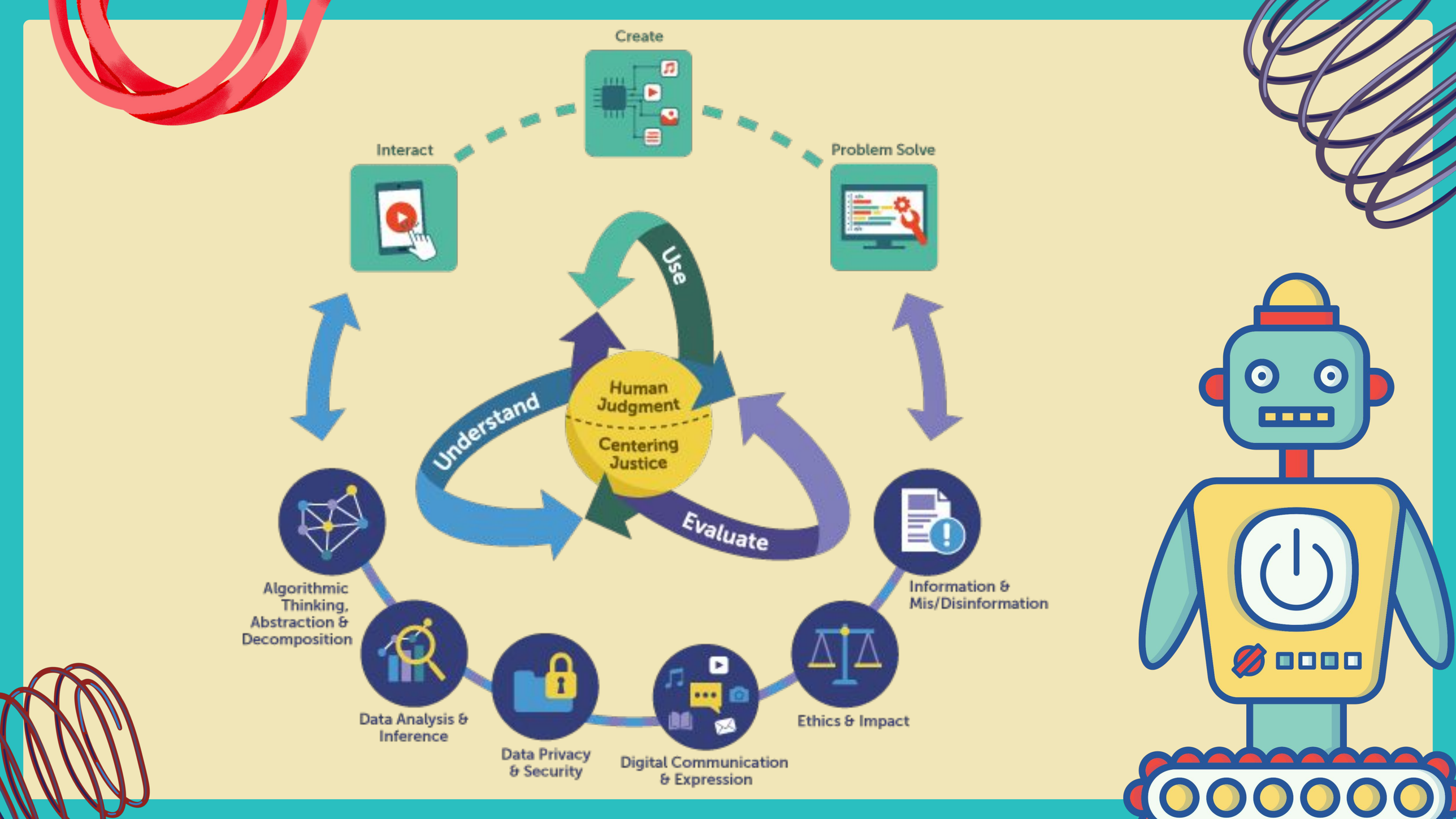
Evaluate

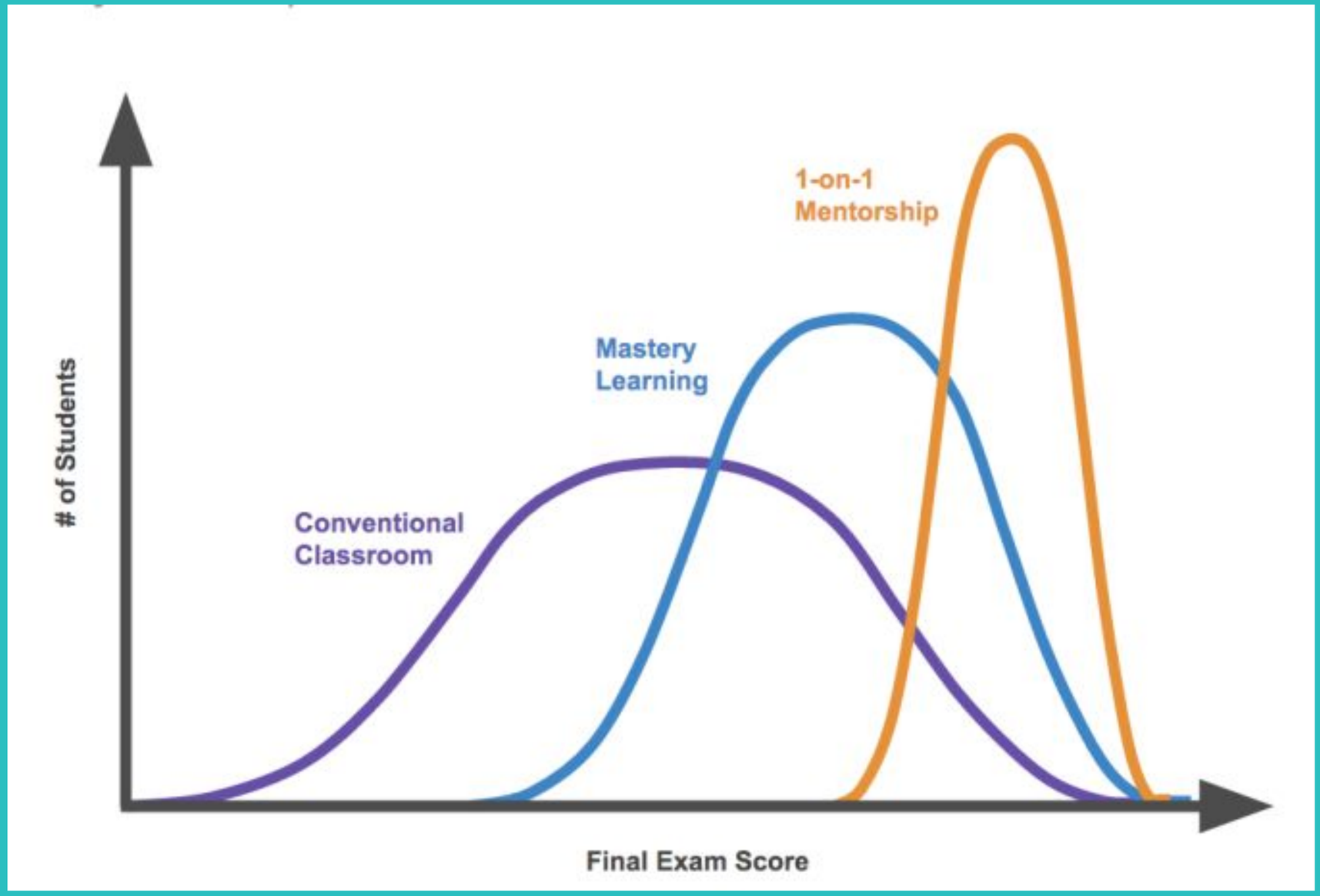
- Be the Human in the loop
- critically evaluate all AI-Generated content

Ethically Participate

- Use AI in line with academic or company policies
- Disclose use of AI
- Be aware of and mitigate bias and inaccuracies

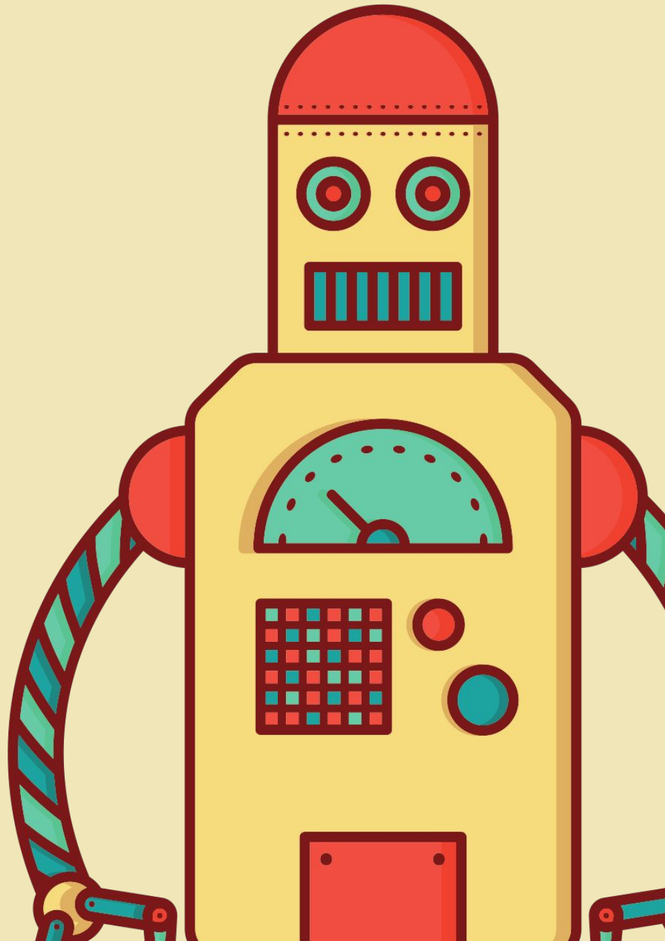



Create
Interact
Problem Solve
Use
Understand
Evaluate
Human Judgment
Centering Justice
Algorithmic Thinking, Abstraction & Decomposition
Data Analysis & Inference
Data Privacy & Security
Digital Communication & Expression
Ethics & Impact
Information & Mis/Disinformation


1-on-1
Mentorship
Mastery
Learning
Conventional
Classroom
# of Students
Final Exam Score

Try This!

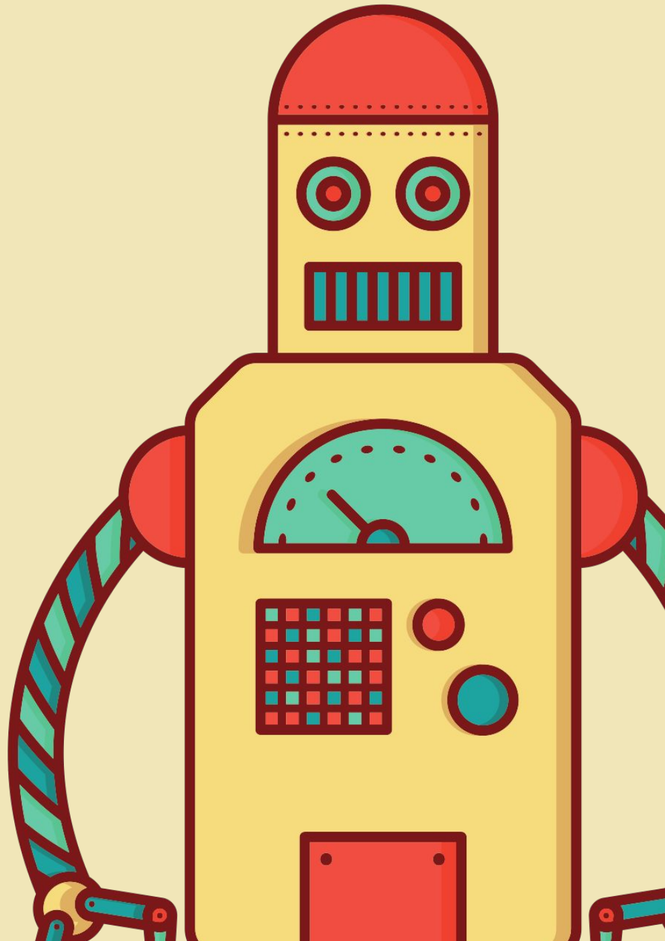
Tell me the similarities and differences between _____ and _____ please.



Try This!

https://tinyurl.com/TutorPrompt

I am a high school student learning about important similarities and differences between _____ and _____ for the first time. You are a teacher. You will engage me in dialogue to introduce important content and concepts to me, check my understanding, help me make relevant connections, assess me formatively, and give me feedback. You go slowly. You only go one step at a time. You ask me clarifying questions before moving on. Your job is not to overwhelm me with information. Your job is to help me learn.`



But what about assessments?

But what about assessments?

Teacher uses
chatGPT to make
an assessment

But what about assessments?

Teacher uses chatGPT to make an assessment



Student uses chatGPT to complete the assessment

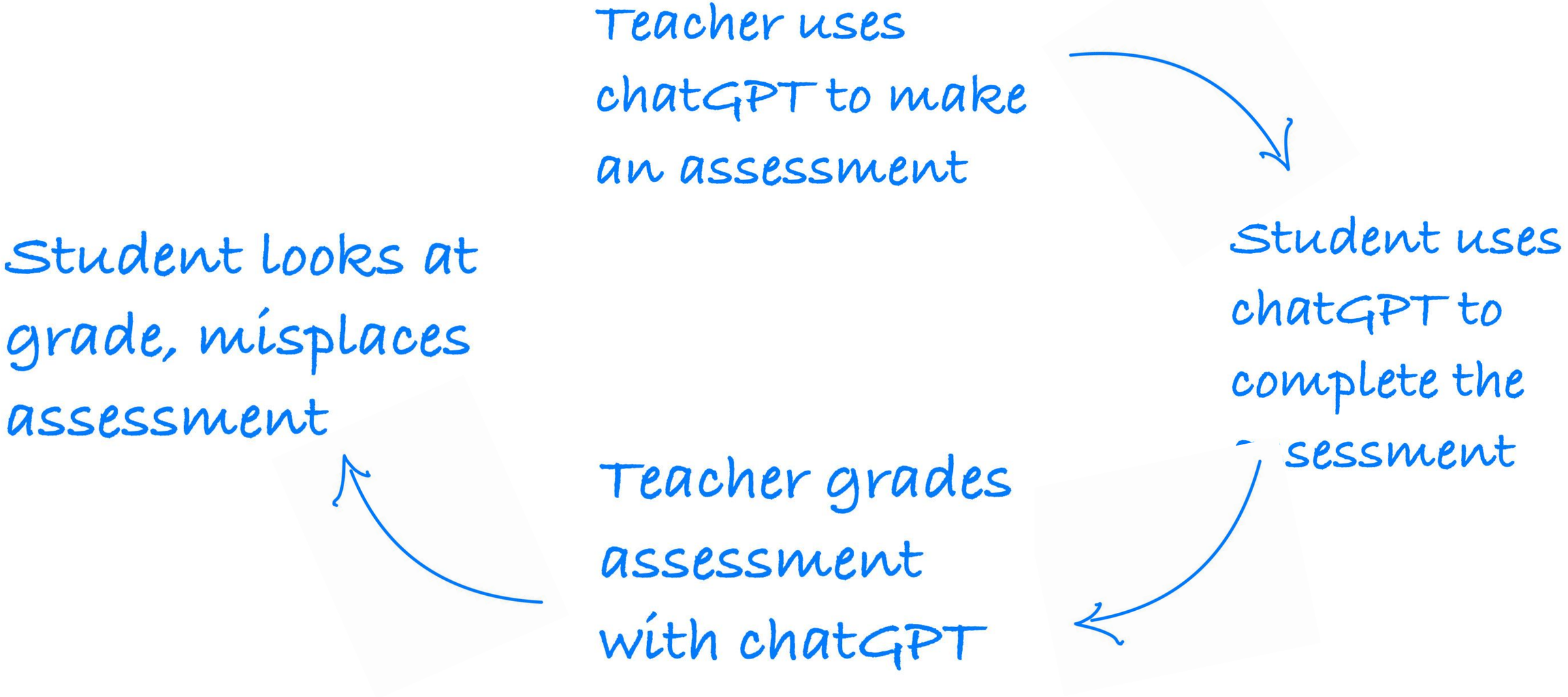
But what about assessments?

Teacher uses chatGPT to make an assessment

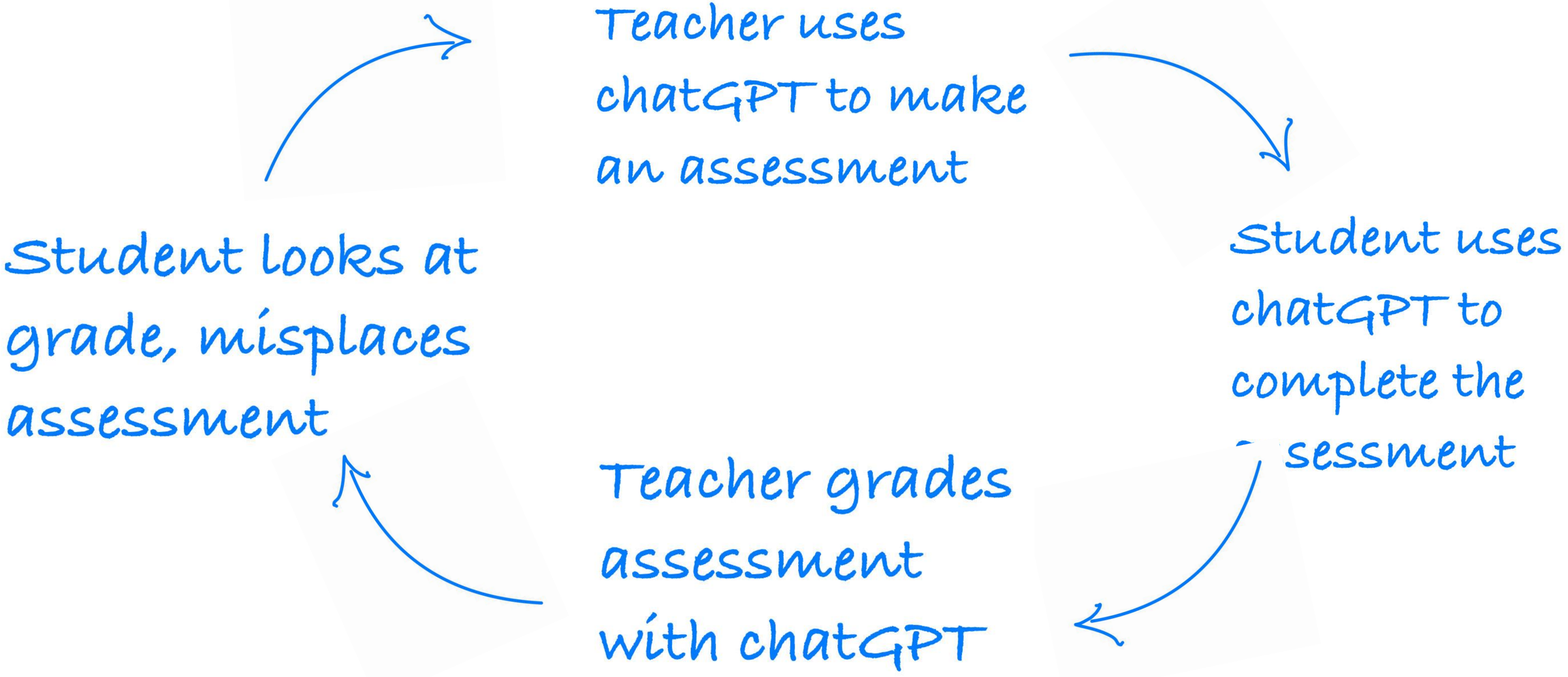
Student uses chatGPT to complete the assessment

Teacher grades assessment with chatGPT

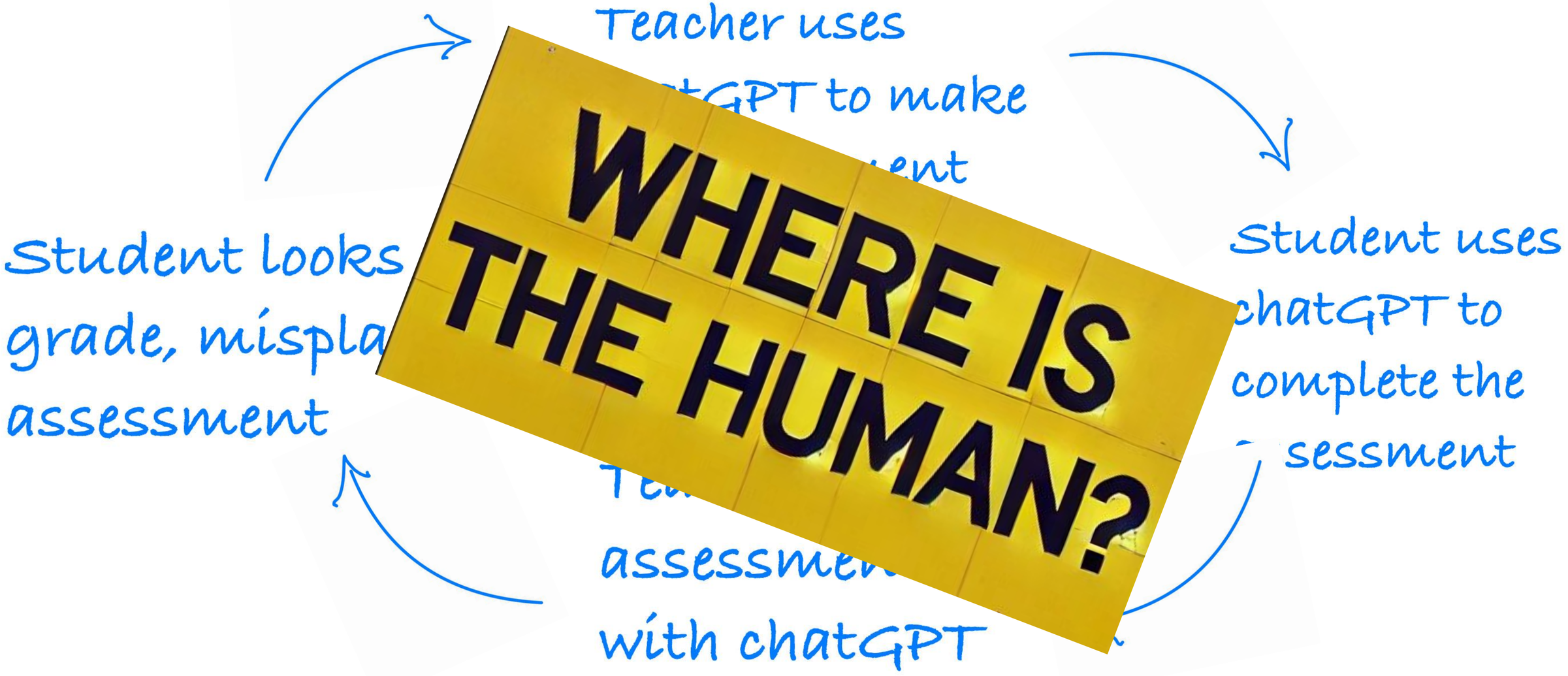
But what about assessments?



But what about assessments?



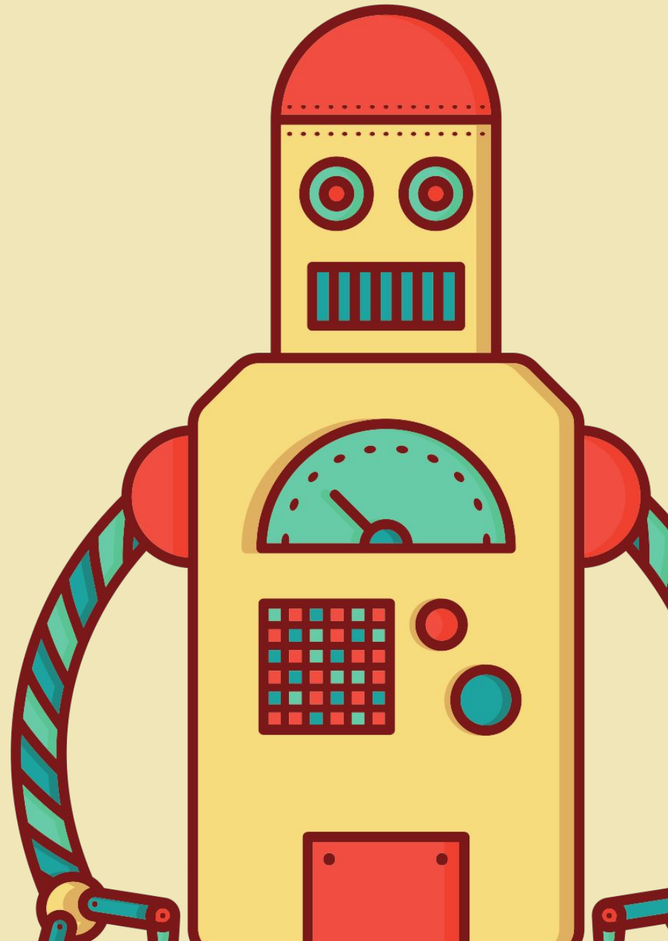
But what about assessments?



Become the human in the loop

AI As a Peer Reviewer

Choose a number that's meaningful or interesting to you. In 5–8 sentences, explain why it's your favourite number. Your explanation should include interesting facts about the number and use precise mathematical language.



AI As a Peer Reviewer: Prompt

I have just completed a short task, and I'd like you to act as a peer reviewer. Here is the success criteria my work was meant to meet:

- **5-8 sentences**
- **Describes an interesting fact about a number**
- **Uses precise mathematical language**

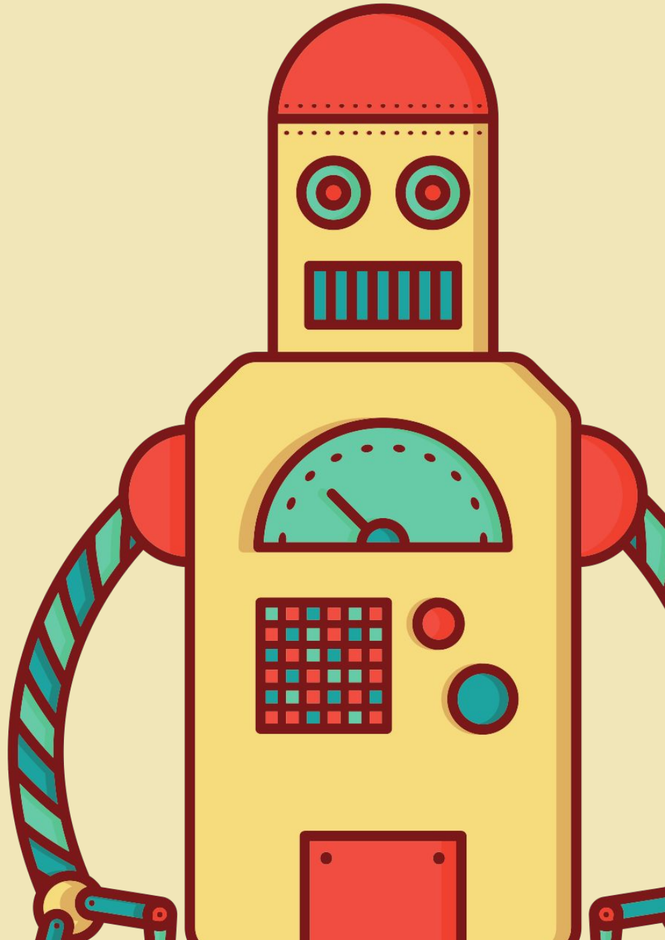
Here is my work:

[Paste your work here — a paragraph, solution, photo of work, etc.]

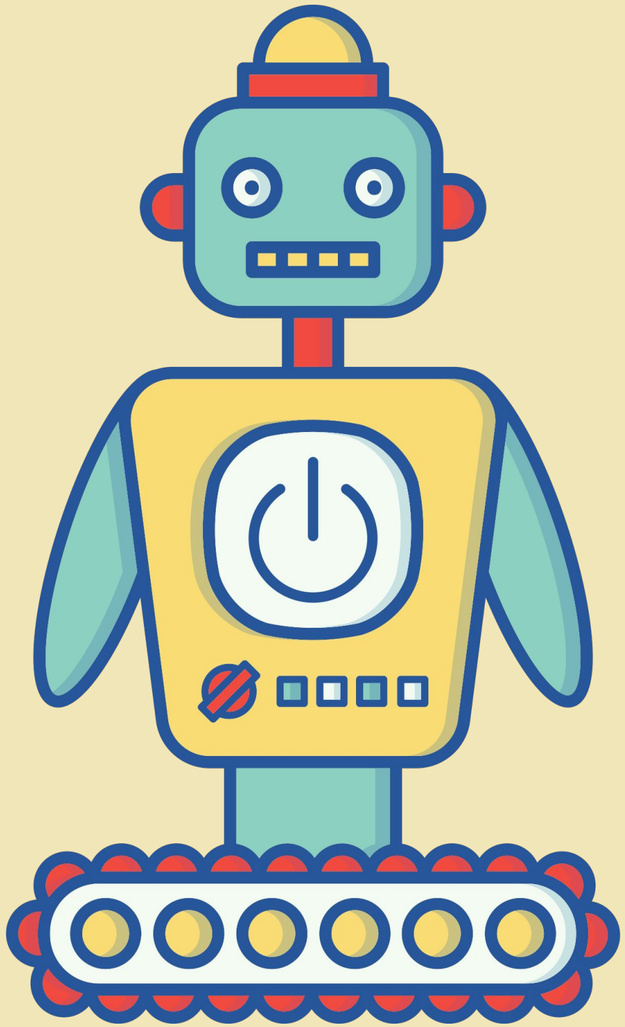
Please review my work using the success criteria. Tell me:

What I did well
Where I could improve

One next step I could take to improve my work



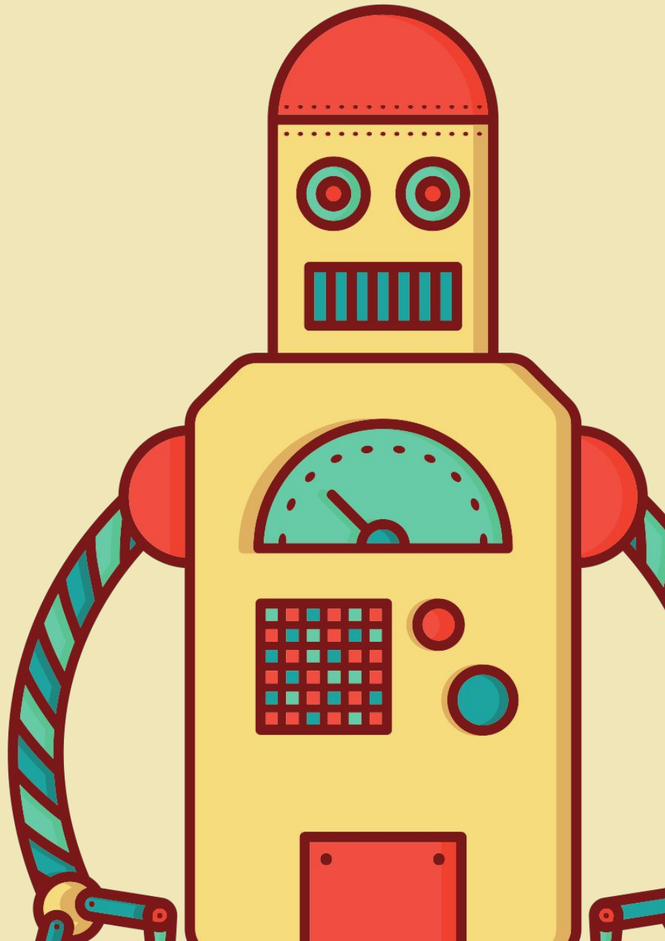
Was the output what you expected?



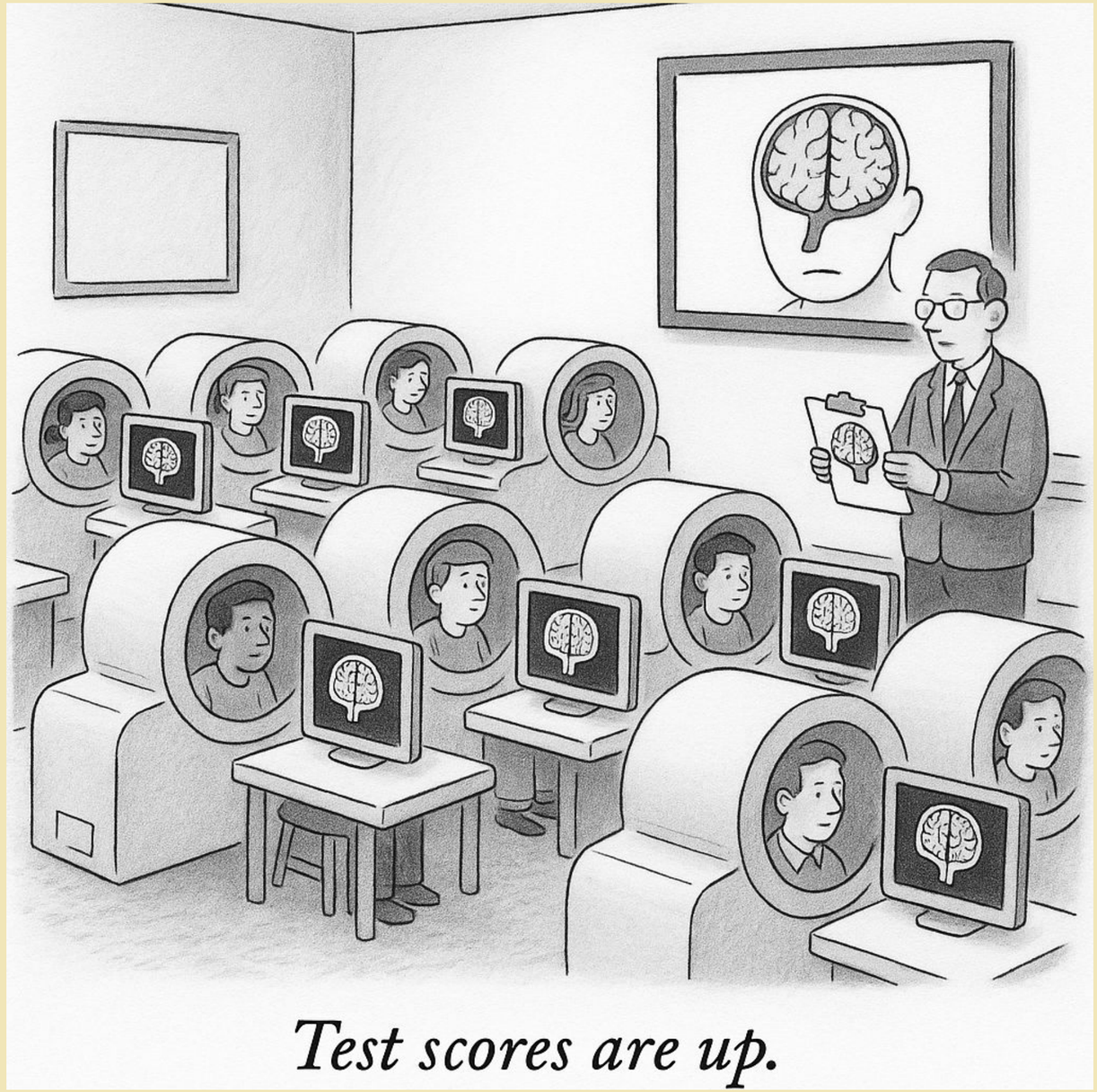
AI As a Content Creator

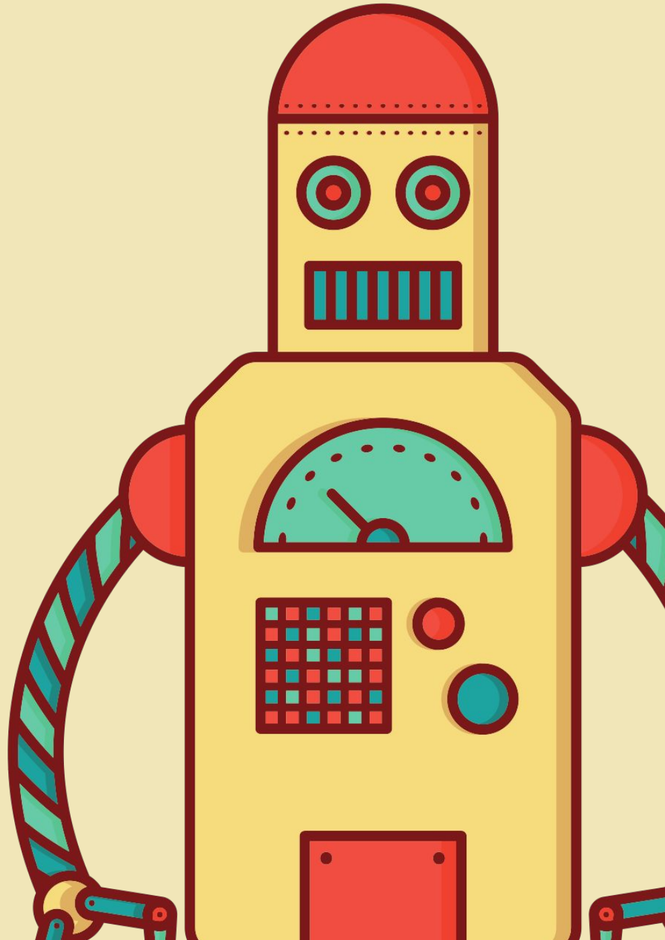
Ask chatGPT to provide instructions for you to make something

- **cookies**
- **stand up comedy routine**
- **study guide**
- **thematic image**
- **“proof of concept”**



AI As a Content Creator





AI As a Content Creator





AI As a Content Creator

AI PROMPT

“Create a Pink Floyd style song about 2 minutes long.”

Verse 1:
In the darkness, I'm searching for light
Trying to find my way through the night
In the silence, I hear a sound
A voice that echoes all around

Chorus:
Echoes of the past, ringing in my mind
Memories that last, never left behind
Echoes of the future, calling out to me
Whispers of adventure, waiting patiently

Verse 2:
In the shadows, I see a face
A ghost from a forgotten place
In the stillness, I feel a chill
A presence that won't be still

Chorus:
Echoes of the past, ringing in my mind
Memories that last, never left behind
Echoes of the future, calling out to me
Whispers of adventure, waiting patiently

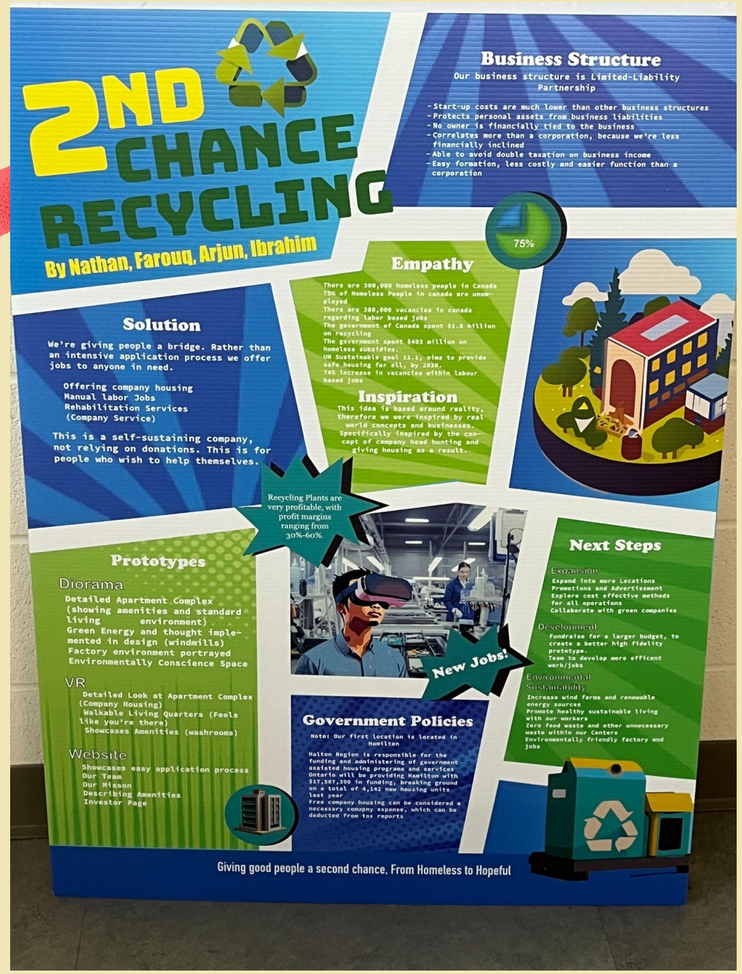
Bridge:
Time is a river, flowing endlessly
Taking us to places, we're meant to be
We can't change the past, but we can shape our fate
And the echoes we leave behind, will resonate

Chorus:
Echoes of the past, ringing in my mind
Memories that last, never left behind
Echoes of the future, calling out to me
Whispers of adventure, waiting patiently

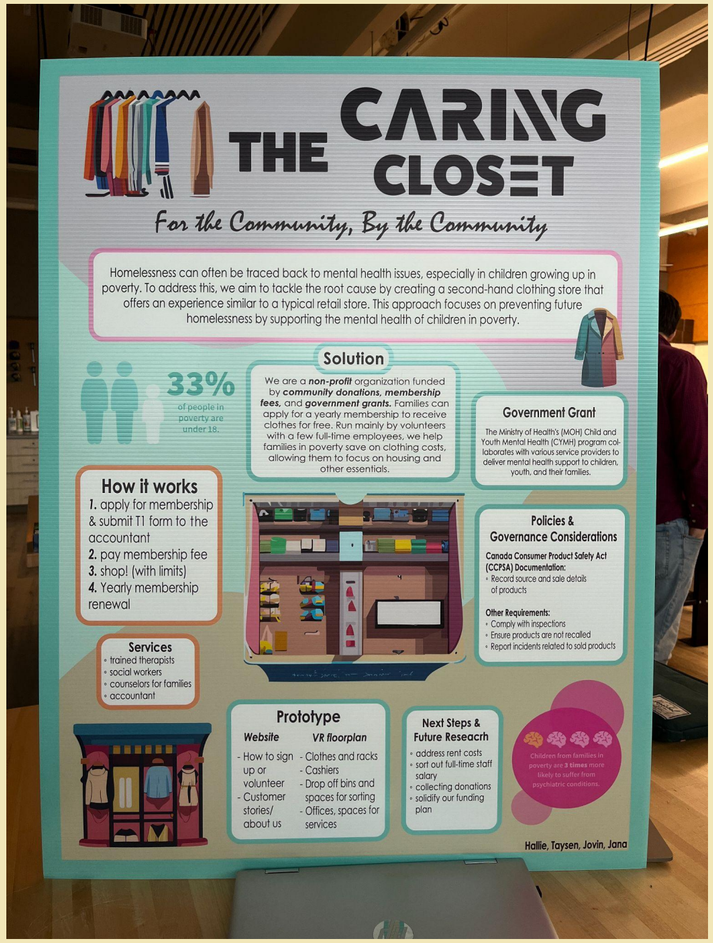
Outro:
In the distance, I see the light
Guiding me through the darkest night
And the echoes fade away
As I step into a brand new day.



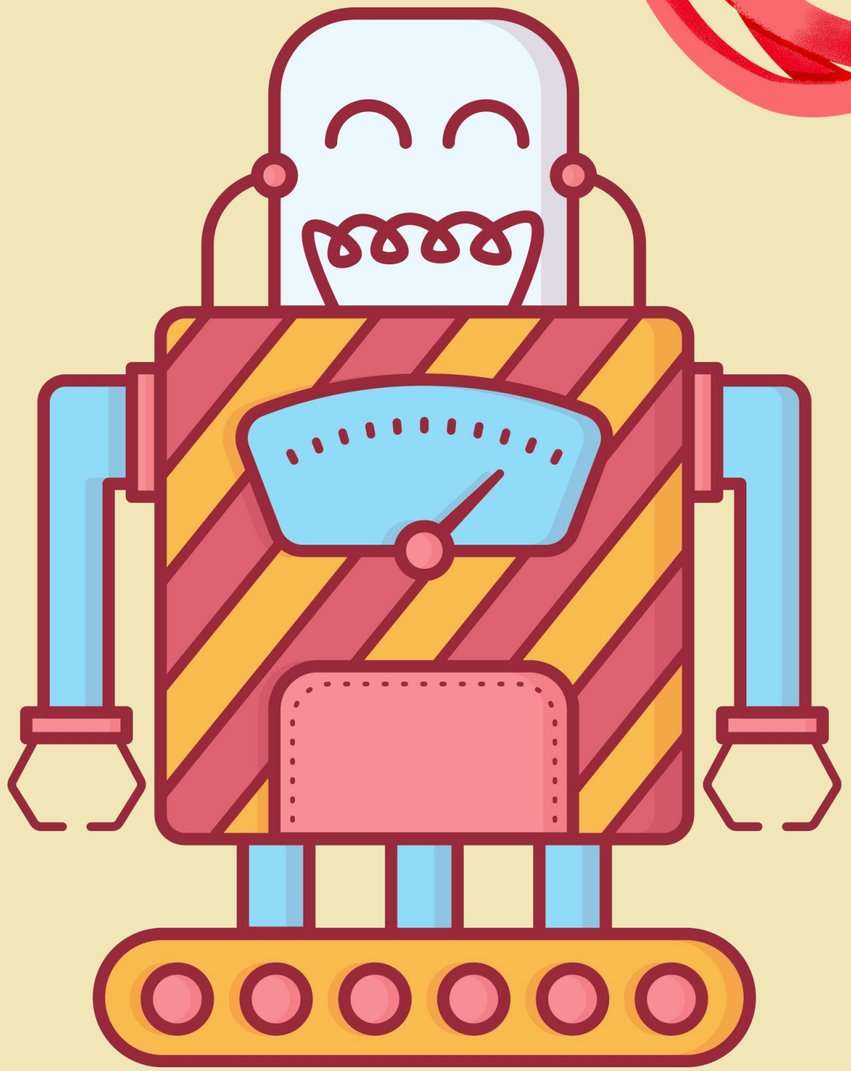
AI As a Content Creator



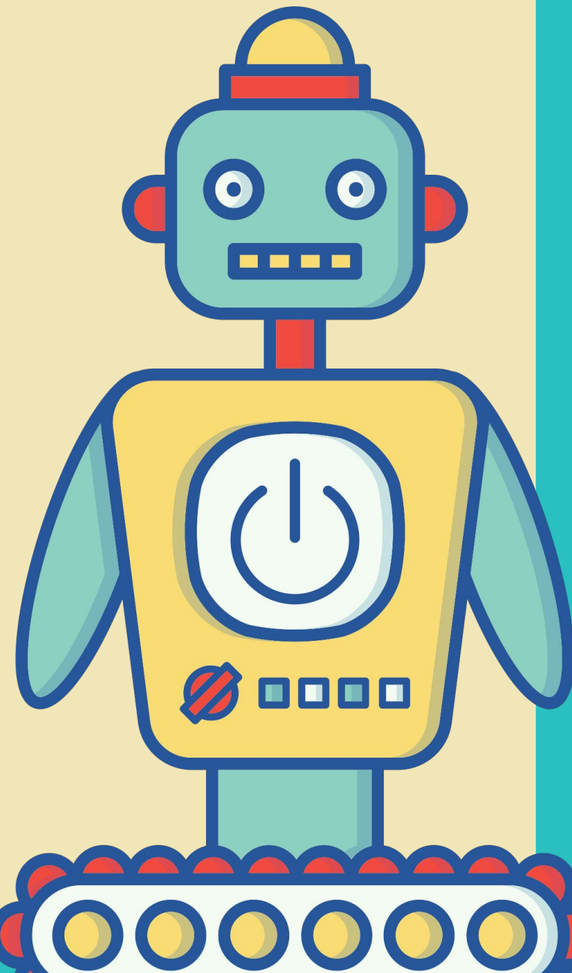




Hacking Assessment in the AI Age

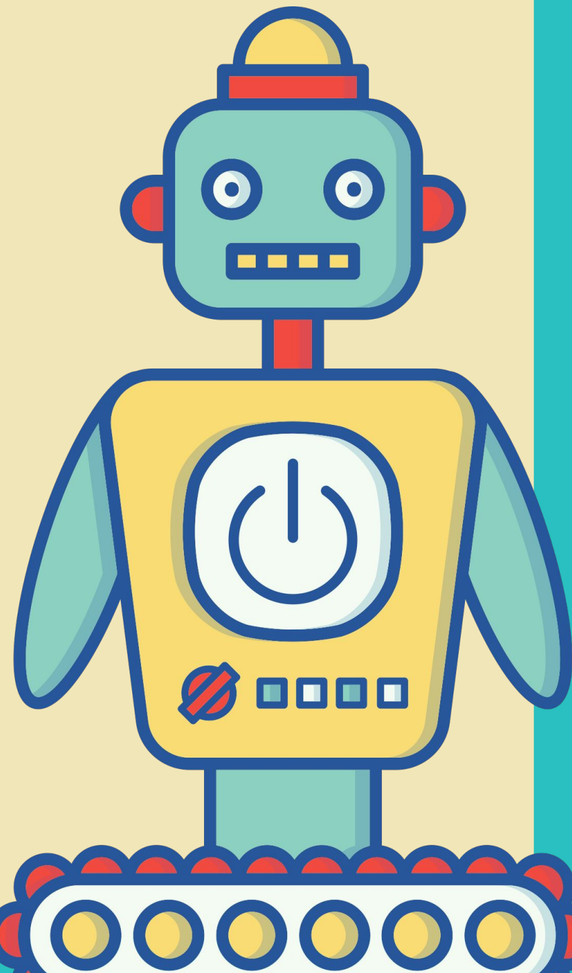


Only be assessing what an individual student could have uniquely created by being present for learning.



What does that mean?

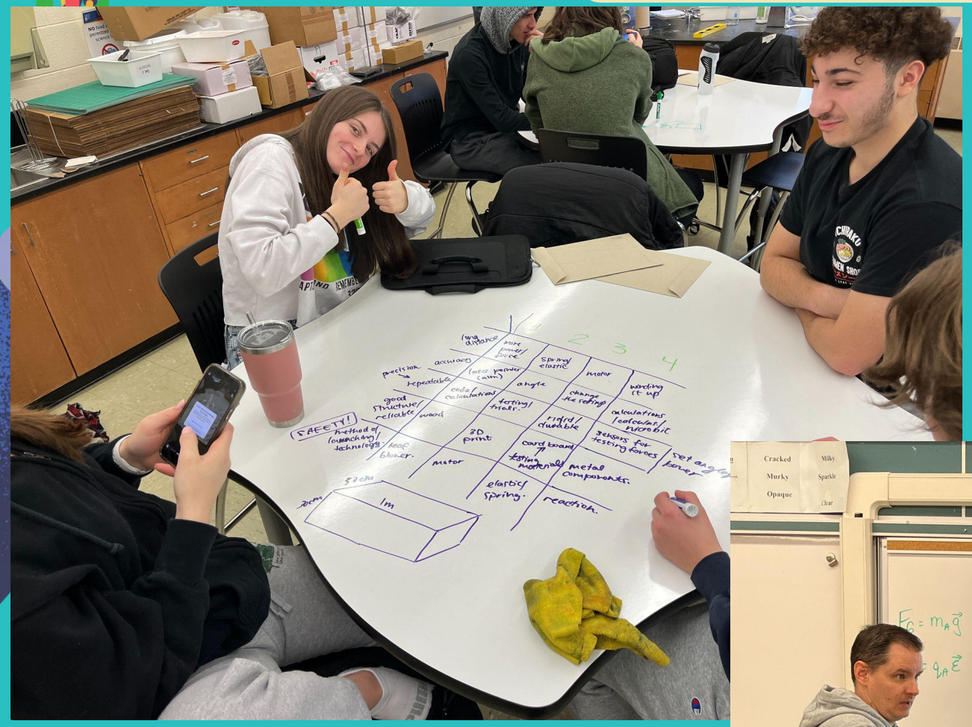
Put the
HUMAN
back in the loop

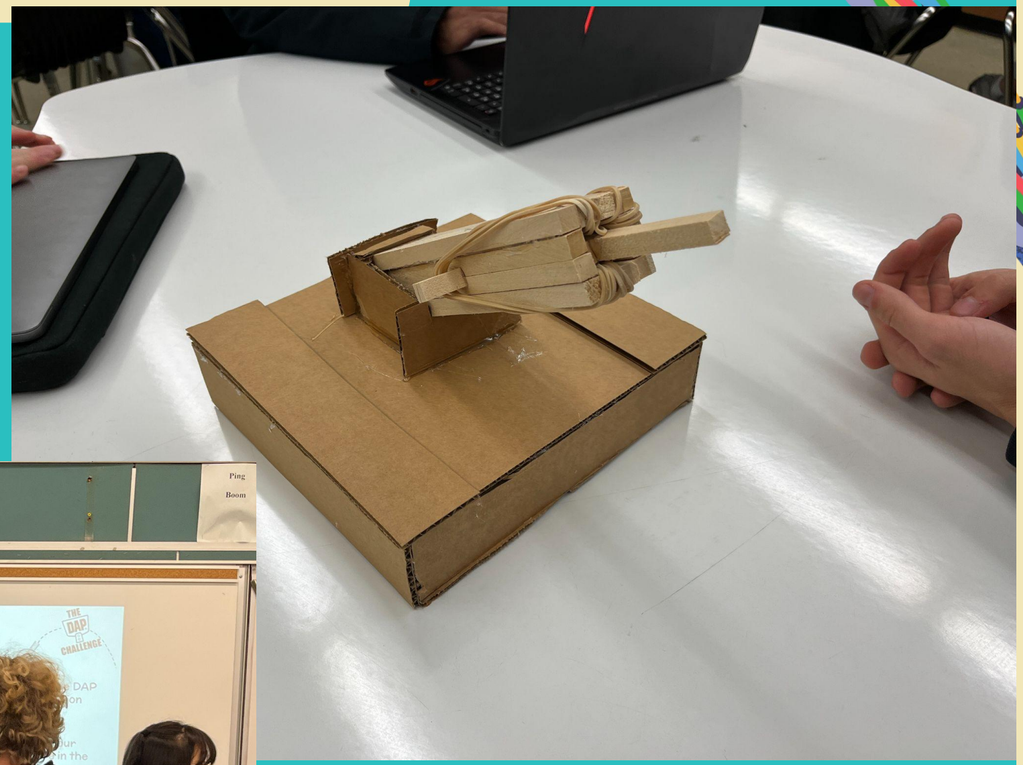


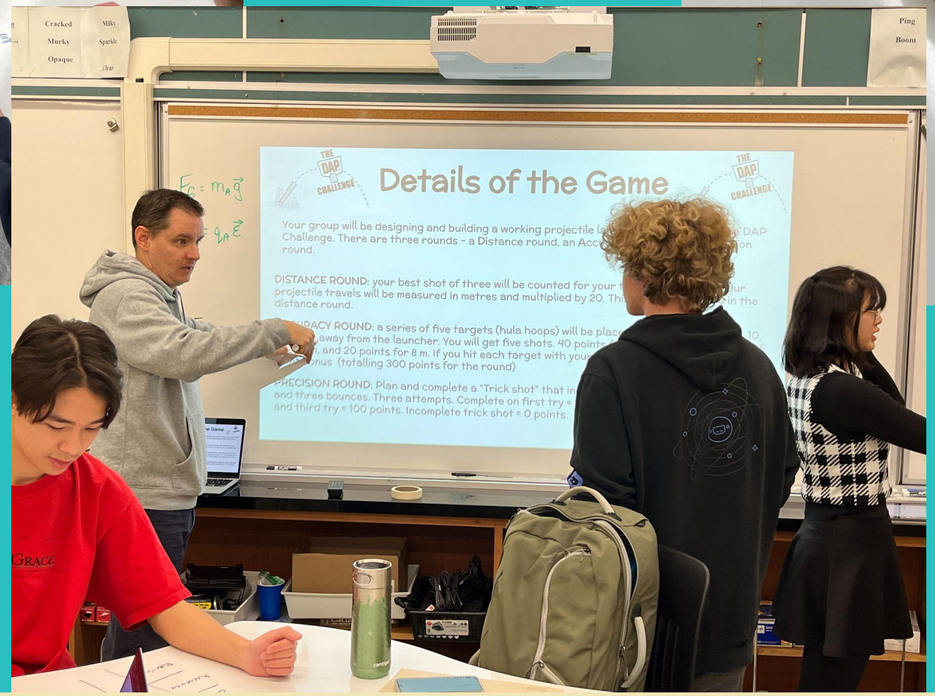
Ok...but how?

1) **Relax**
2) **Value Observations & Conversations**
3) **Interview...creatively**
4) **Invite the outside world into your class**

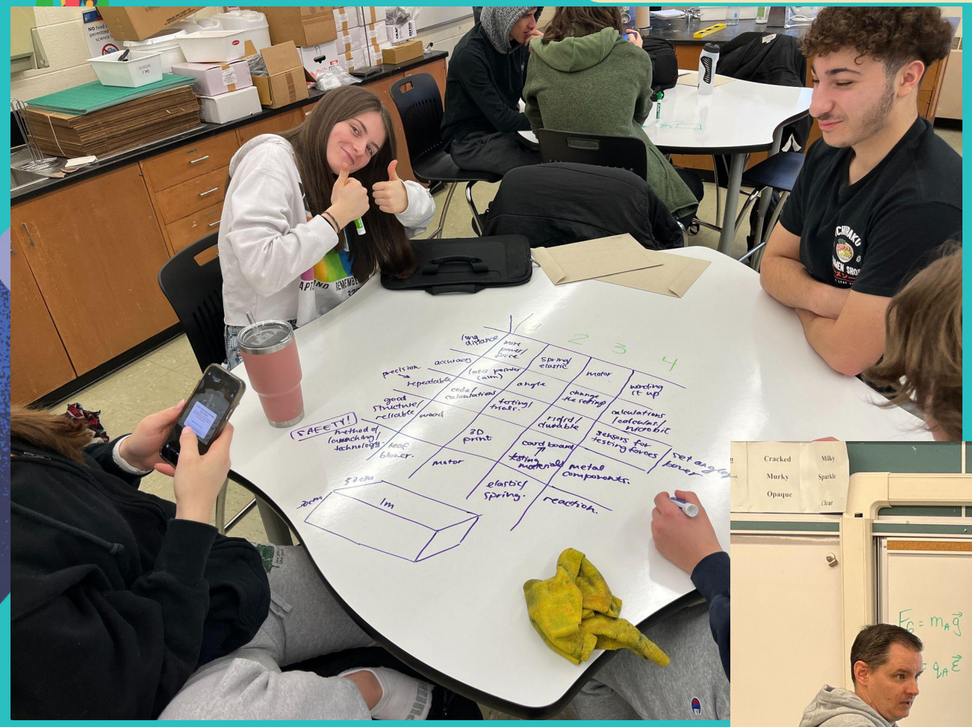
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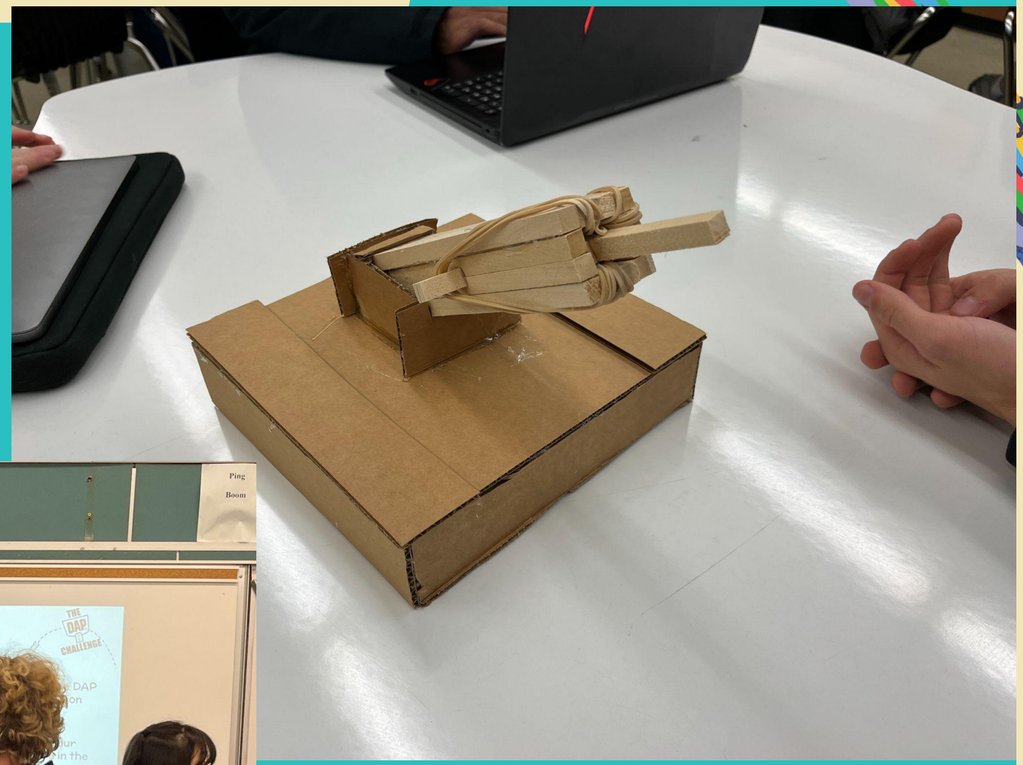

SAFETY!
1
2
3
4
accuracy
precision
reproducible
good structure/ reliable
sound
safety
method of launching/ technology
motor
5 cm
1m
2m
angle
turning/ twist
3D print
motor
elastic spring
reaction
spring/ elastic
motor
changing reading
rigid/ durable
cardboard
metal components
working (it up)
calculations/ calculator/ excel/ tic
sensors for measuring forces
Set an angle
tension

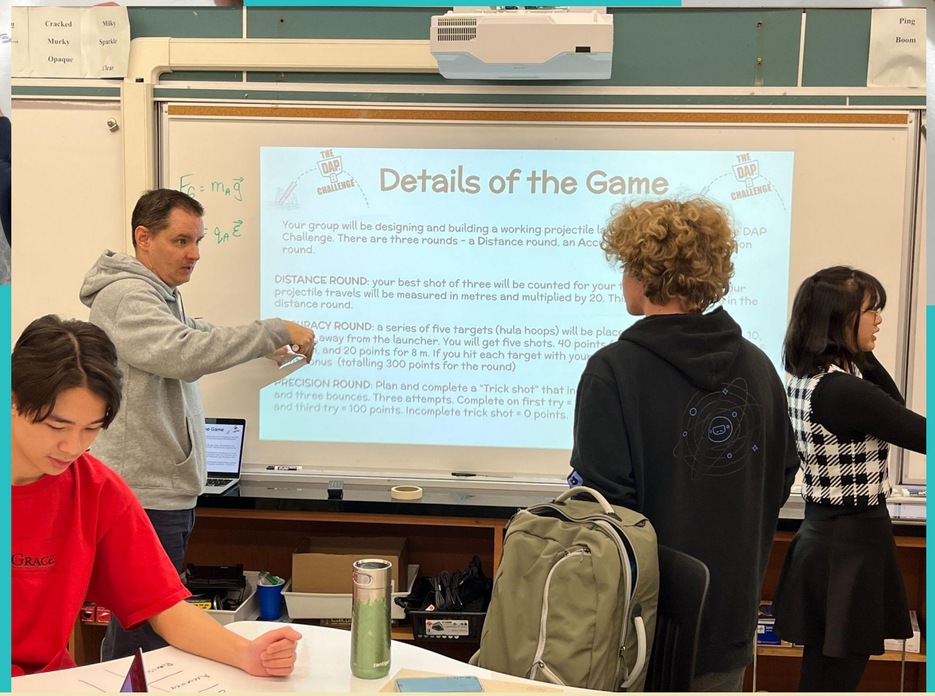



Cracked
Murky
Opaque
Miki
Sparkle
Clear
Ping
Boom
THE DAP CHALLENGE
Details of the Game
DISTANCE ROUND: your best shot of three will be counted for your
projectile travels will be measured in metres and multiplied by 20. Th
distance round.
PRECISION ROUND: Plan and complete a "Trick shot" that i
and three bounces. Three attempts. Complete on first try =
and third try = 100 points. Incomplete trick shot = 0 points.
GRACE

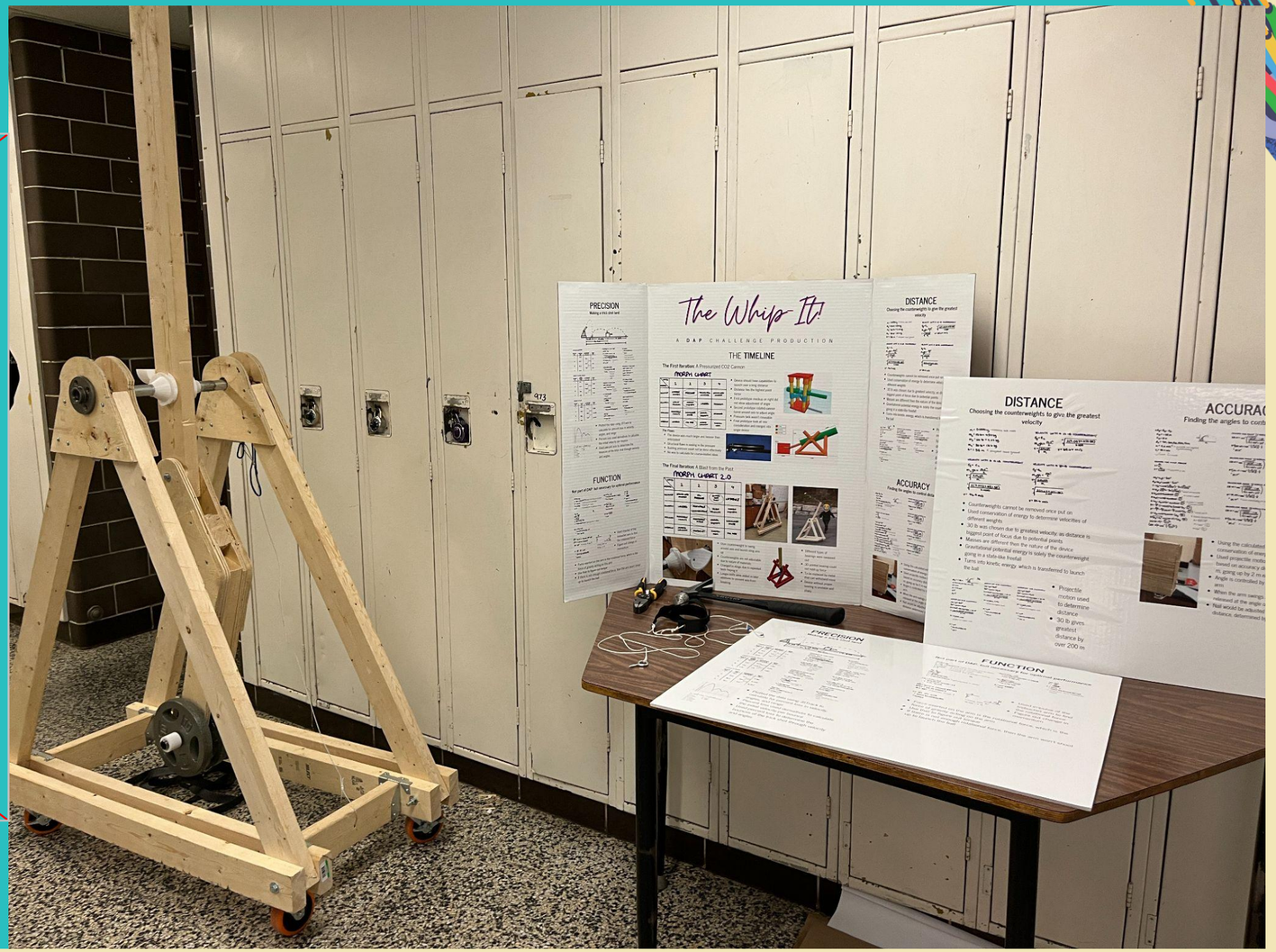
Ok...but how?


SAFETY!
1
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accuracy
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reproducible
good structure/ reliable
sound
safety
method of launching/ technology
motor
5 cm
1m
2m
angle
turning/ twist
3D print
motor
elastic spring
reaction
spring/ elastic
motor
changing reading
rigid/ durable
cardboard
metal components
working (it up)
calculations/ calculator/ excel/ tic
sensors for measuring forces
Set an angle
tension

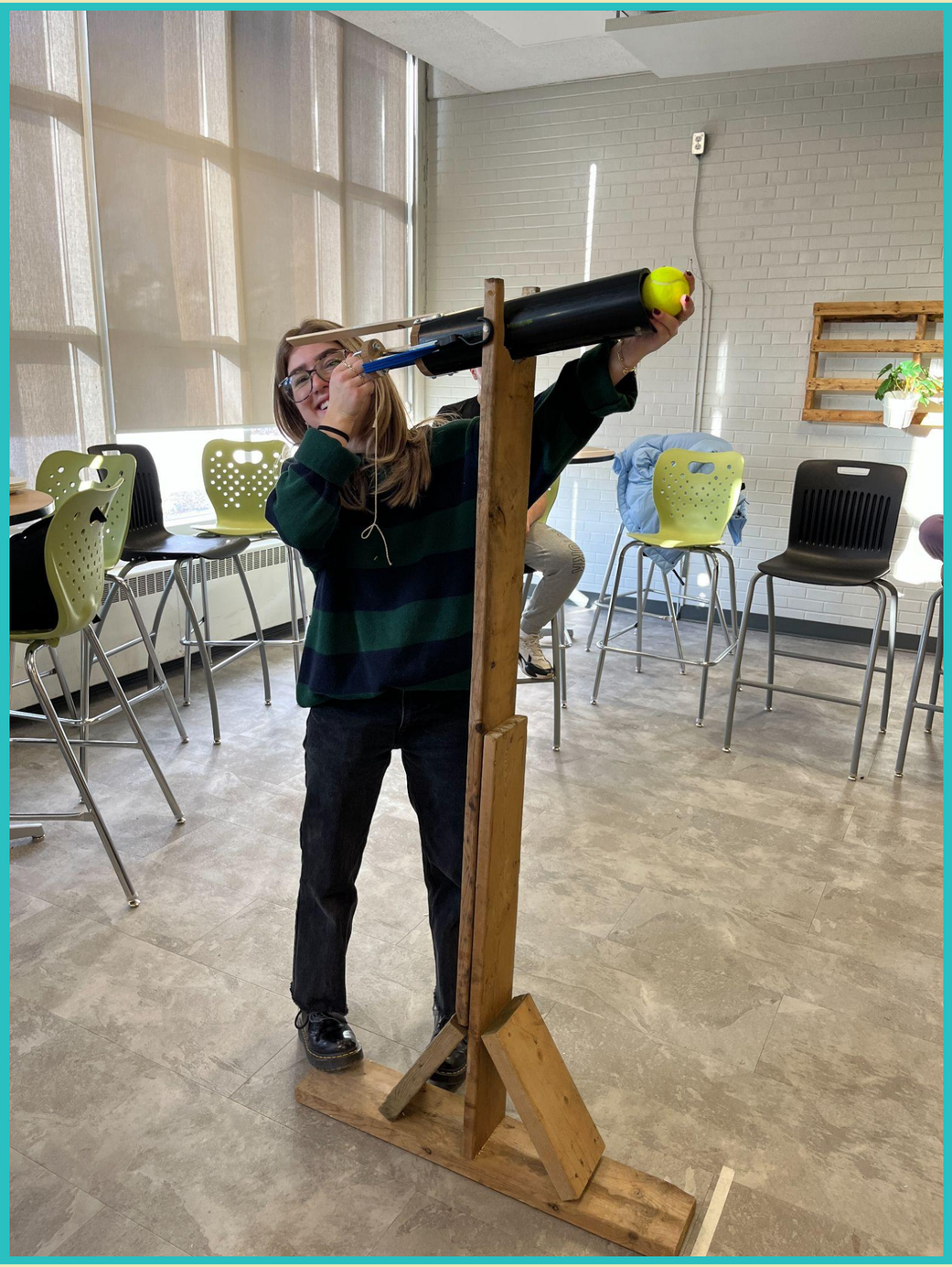



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and three bounces. Three attempts. Complete on first try =
and third try = 100 points. Incomplete trick shot = 0 points.
GRACE

Ok...but how?


PRECISION
The Whip It!
A DAP CHALLENGE PRODUCTION
THE TIMELINE
DISTANCE
ACCURACY
FUNCTION
DISTANCE
Choosing the counterweights to give the greatest velocity





Celebrate student brilliance....

...by talking to students

It’s not about getting a runner to finish the race. It’s about convincing someone that they can run the race in the first place.

Thank you!

The material in this presentation was developed in partnership with the HDSB AI Team

Halton District School Board

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Tamara Phillips

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