

# Descobrim el model del High Tech High

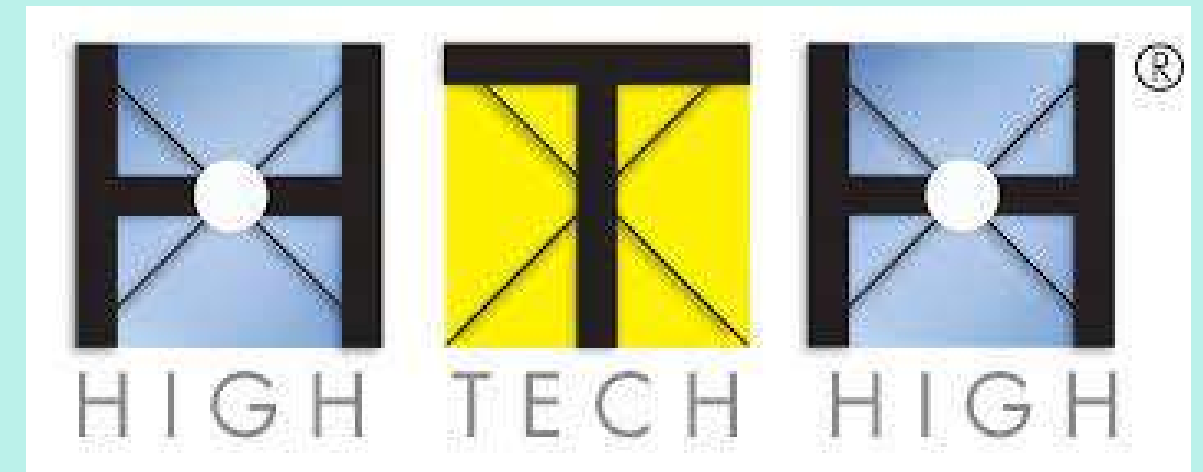


STEAMcat

Elena Vercher  
@elenavercher



# Descobrim el model del High Tech High



# QUÈ ÉS EL HIGH TECH HIGH?

El High Tech High es va establir el 2000 amb l'objectiu de reimaginar l'experiència de l'institut.

HTH pretén preparar els estudiants per a l'èxit al segle XXI, posant èmfasi en el pensament crític, la col·laboració, la comunicació i la creativitat.

Ha rebut el premi Broad Prize for Public Charter Schools" al 2007 que reconeix les escoles de l'ensenyament secundari que mostren un alt rendiment acadèmic, especialment entre els estudiants de baixos ingressos i d'ètnies minoritàries.



**Think  
Outside  
The  
Box**

**D39C**







*Filosofia i principis*





# PBL – Aprenentatge basat en projectes

Investigació impulsada per l'alumnat,  
aprenentatge pràctic i aplicació al món real.

Integració de diverses matèries i permet a  
l'alumnat abordar problemes autèntics.



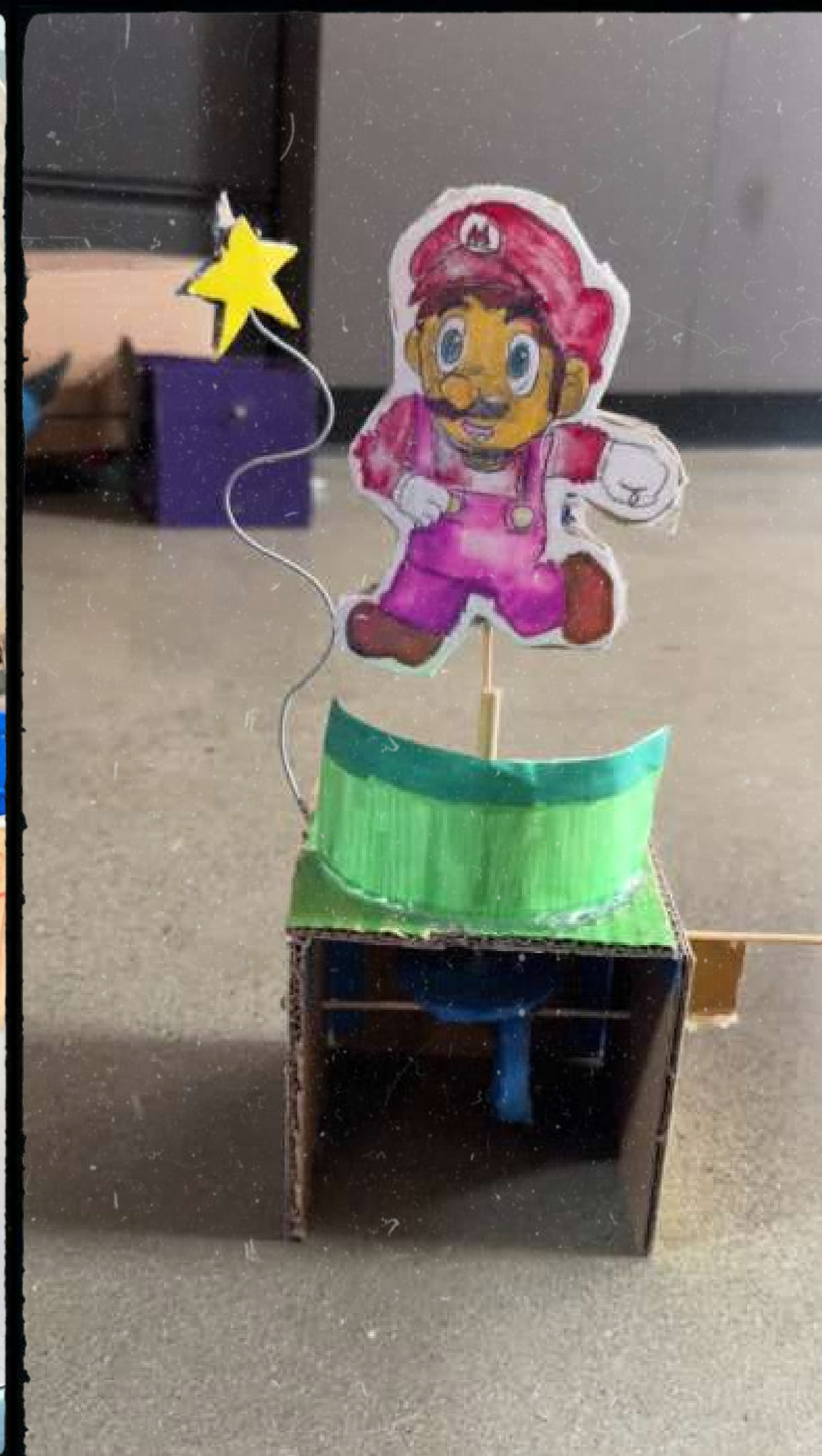








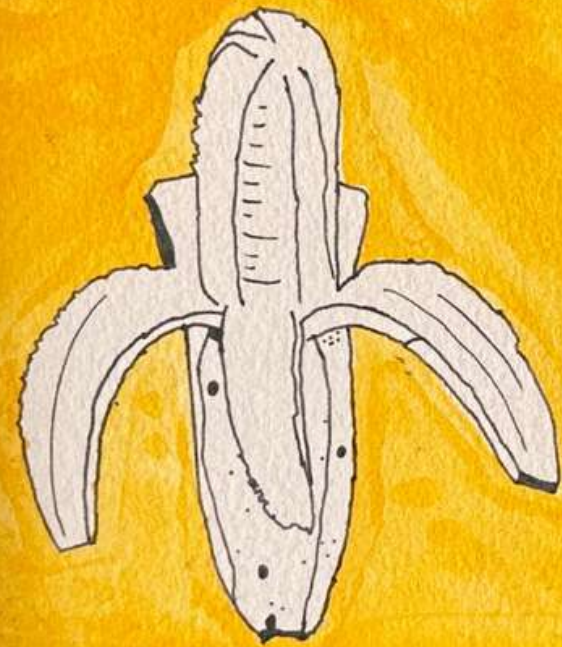






**BANANAS ARE AMAZING.  
BANANAS ARE LIFE.**

**-NATHAN**



## PROJECT OUTLINE

- PROJECT LAUNCH:
  - SHARING INSPIRATION FROM ORGANIZED AND MULTI-IMAGE ART
  - INTRODUCING INFLUENTIAL ABSTRACT ARTISTS WHO UTILIZE LINEAR, SERIES, AND SHAPE ART
  - SETTING GOALS AND TARGETS FOR THE PROJECT
  - STATING MAIN FOCUS OF THE PURPOSE AND HEART OF THE PROJECT
- PROJECT PROCESS EXPLAINED
  - PROJECT PROCESS EXPLAINED
- PART 1: GETTING TO KNOW ONE SELF
  - THINKING ABOUT ONE SELF AND CHOOSING THE FOCUS FOR THE ART OF THE PROJECT (THE HEART OF THE PROJECT)
  - FIND OUT WHAT ONE WOULD LIKE TO SHARE TO THE WORLD
- PART 2: NARRATIVE AND WRITTEN WORDS
  - CREATING A WRITTEN SEGMENT THAT STATES WHAT IT IS ONE WANTS TO VISUALLY REPRESENT AND SHARE WITH THE WORLD
- PART 3: FINDING THE RESOURCES AND IMAGES TOO BEST HELP THE VISUAL ILLUSTRATIONS
- PART 4: ADODGE ILLUSTRATION AND BENTO DESIGN LAYOUT
- PART 5: TRACING AND ALTERING ART FOR PERSONAL STYLE
- PART 6: OUTLINE AND INKING
  - AN ART STYLE AND TECHNIQUE TO ENHANCE IMAGES
- PART 7: MONOCHROMATIC COLORED BACKGROUND WASH
  - TO ENHANCE IMAGES
- PART 8: CARPENTRY FRAMING AND LINES (BENTO DESIGN LAYOUT)
- PART 9: FINALE - EXHIBITION
  - SHARING THE WORK OF THE STUDENTS





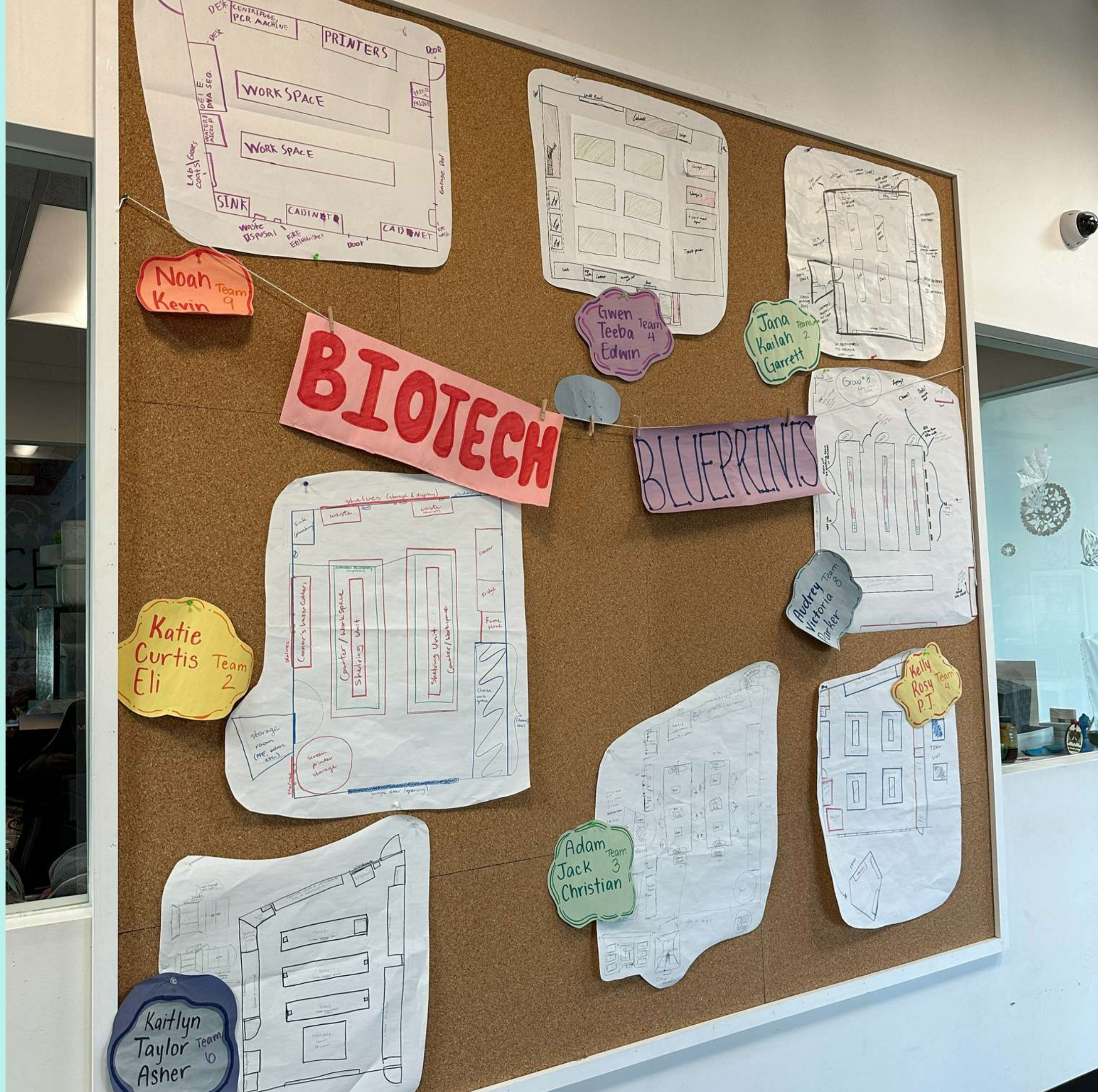
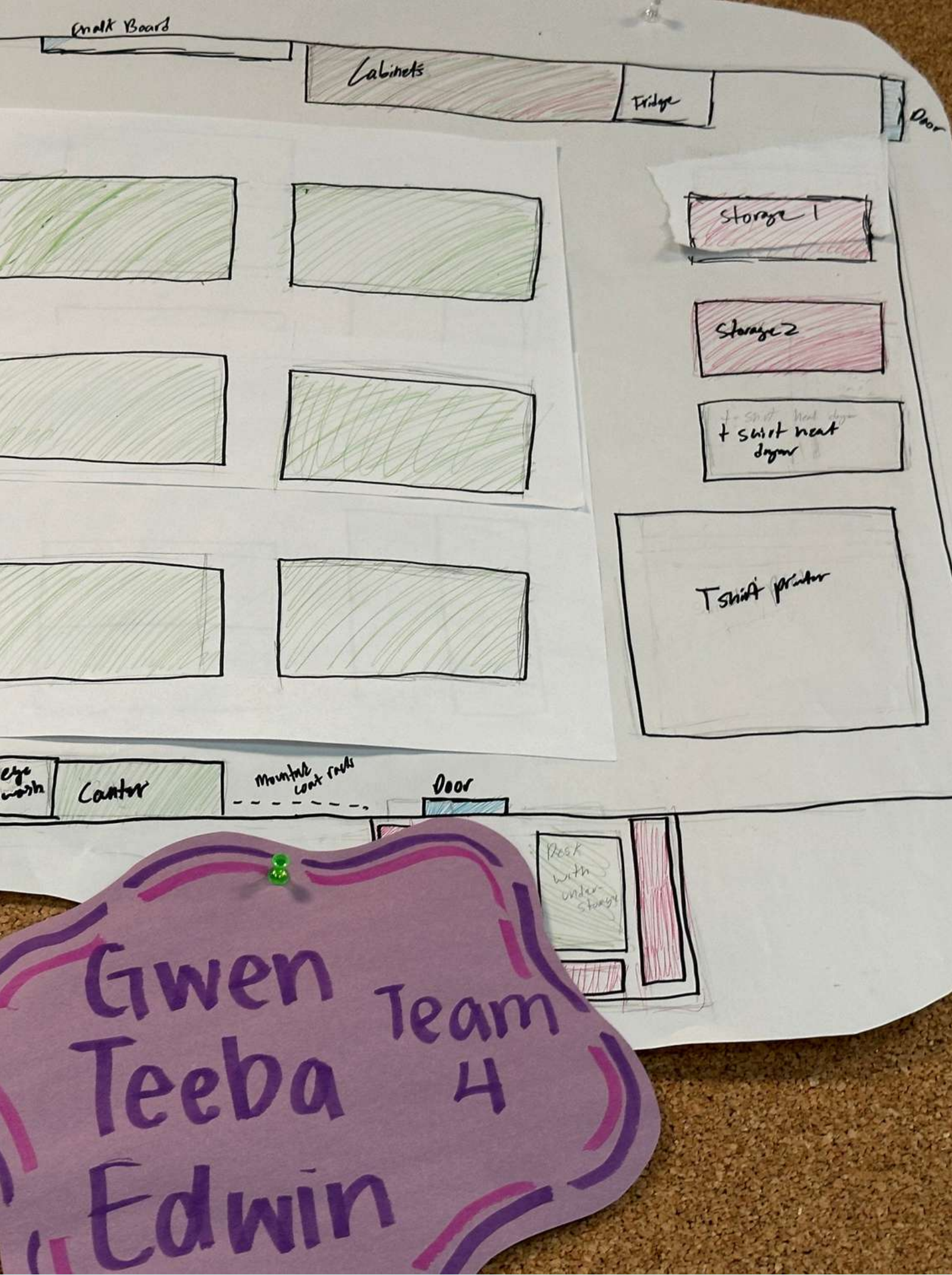
# Avaluació autèntica

Contraposa mètodes d'avaluació tradicionals, com ara proves estandarditzades, amb les pràctiques d'avaluació autèntica utilitzades a HTH, com ara presentacions i exposicions als receptors del projecte.

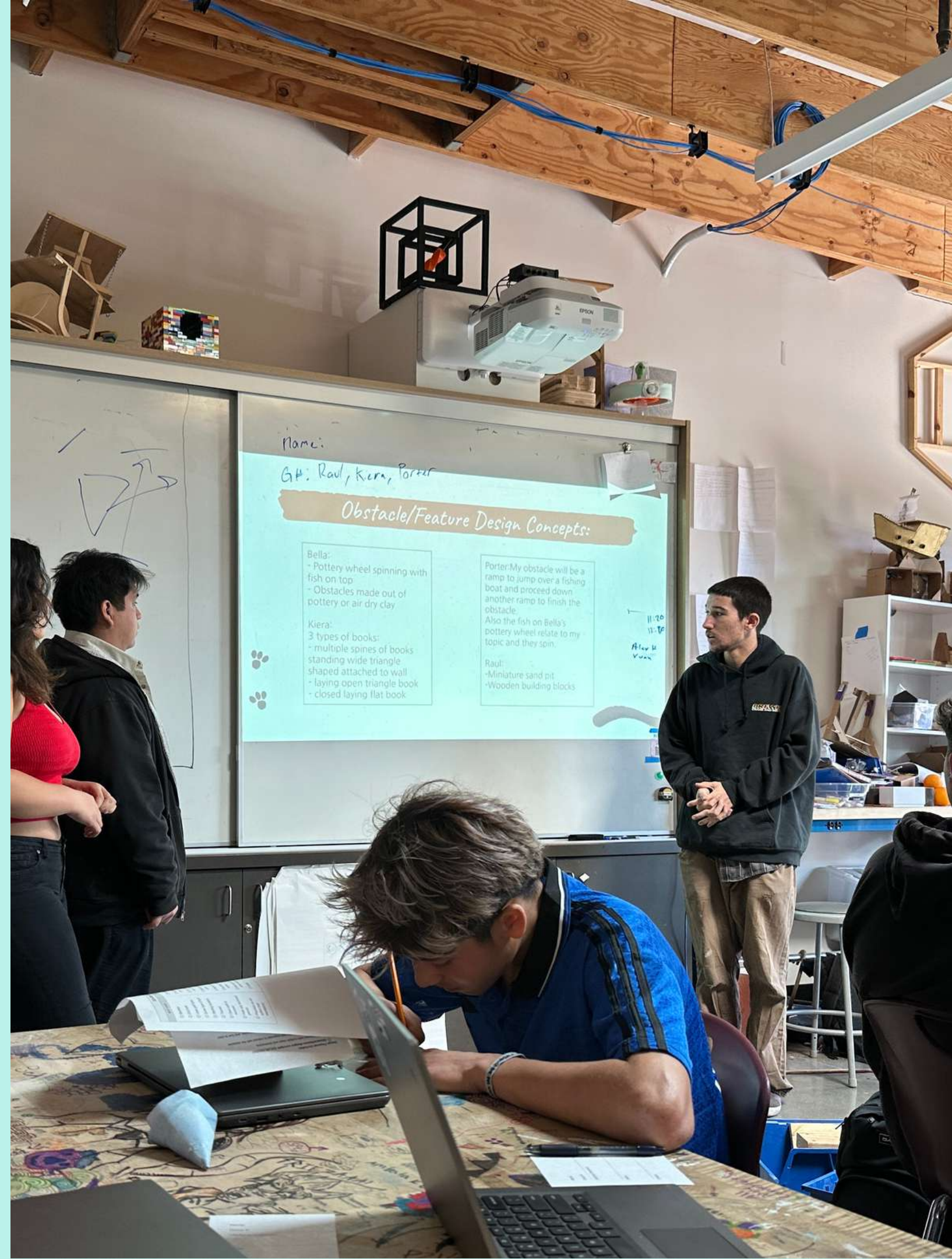
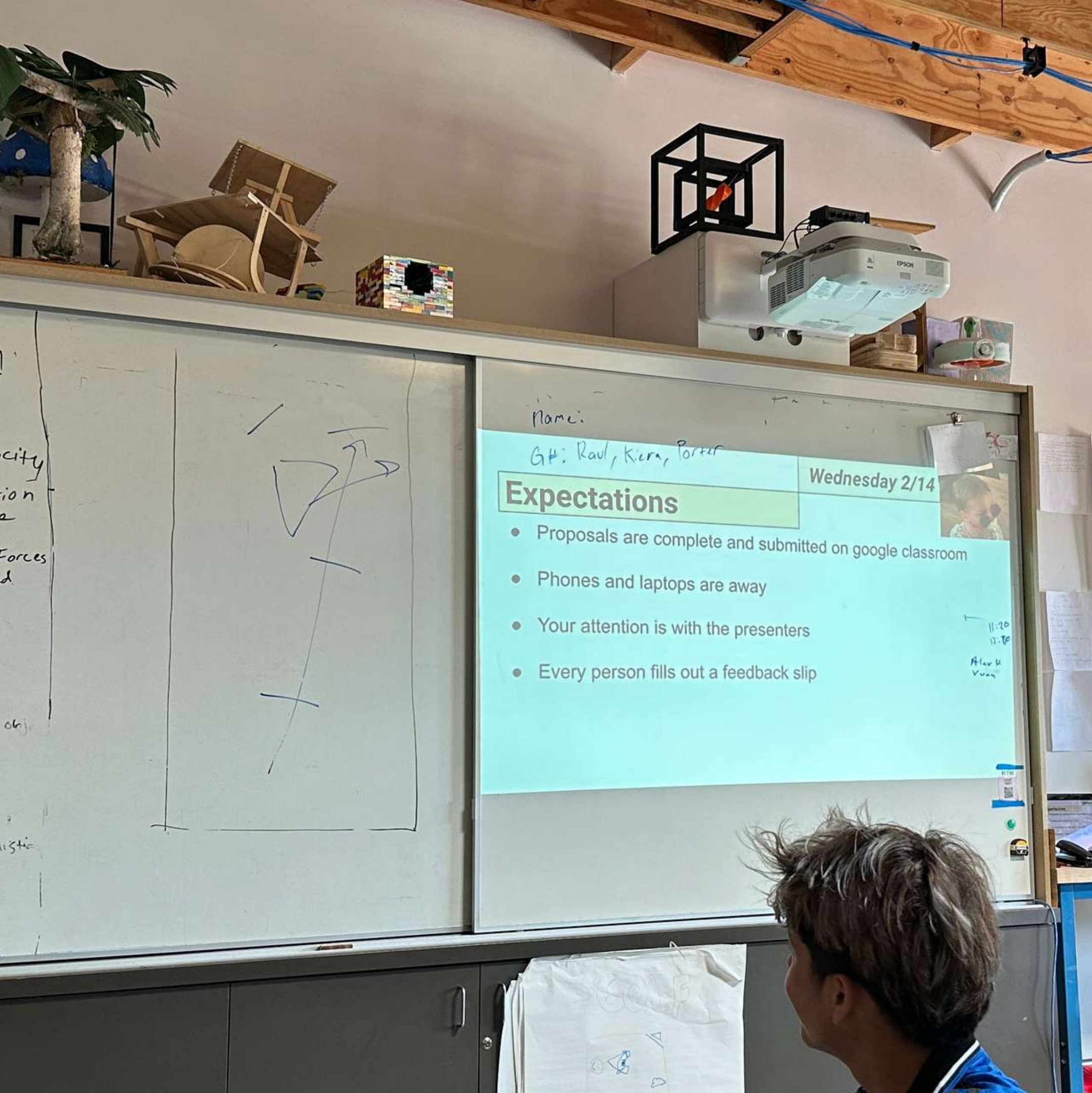
Explica com s'alinea l'avaluació autèntica amb la filosofia de HTH de preparar l'alumnat per a reptes del món real.

















# Curriculum interdisciplinari

Fomenta que els professors col·laborin en projectes interdisciplinaris.

Comprensió holística i anima a l'alumnat a establir connexions entre les disciplines.





FEB

JAN

DEC

NOV

OCT

SEPT

AUG

Argumentative/Persuasive Writing

PLTW Organisms: Structure and Function

Unit 4  
The Road to War  
Tensions Grow Between Colonies and Great Britain - Unit 10  
To Declare Independence or Not - Unit 11  
Declaration of Independence - Unit 12

Properties of Two-Dimensional Shapes (4th)

More Decimal and Fraction Operations (5th)  
March 4 - April 5

Narrative Writing

PLTW Waves and Properties of Life LIGHT

Cooperation + Conflict in N. America  
Unit 3  
Early English Settlements  
Unit 6  
Comparing the Colonies  
Unit 7  
Slavery  
Unit 8  
Life in Colonial Williamsburg  
Unit 9

Multiplying and Dividing Multi-digit Numbers (4th)

Place Value Patterns and Decimal Operations (5th)  
Jan 8 - Mar 1

Deep Dive Round #3  
Jan 30 → April 4

Exploration #2

Fleet  
1/8  
1/11  
1/12

Exploration #1  
Nov 23 → 15

Wrapping Up Multiplication and Division with Multi-digit Numbers (5th)  
Nov 13 - Dec 22

Deep Dive Round #2  
Nov 6  
Oct 21 → Jan 25

Extending Operations to Fractions (4th)  
Oct 5 → Nov 3

Routes of Exploration to the New World  
Oct 16 - Nov 5

US Geography  
Early People Before Columbus  
Unit 1

Novel Study  
Blood on the River

What does courage look like?  
What does it mean to be courageous?

How does PERSPECTIVE help you gain empathy and understanding of the world?

Reading

Writing

Integrated Learning

Science (PLTW)

Social Studies

Maths

Deep Dives Explorations

Field Trips  
Open Related Experiences

Novel Study

Novel Study

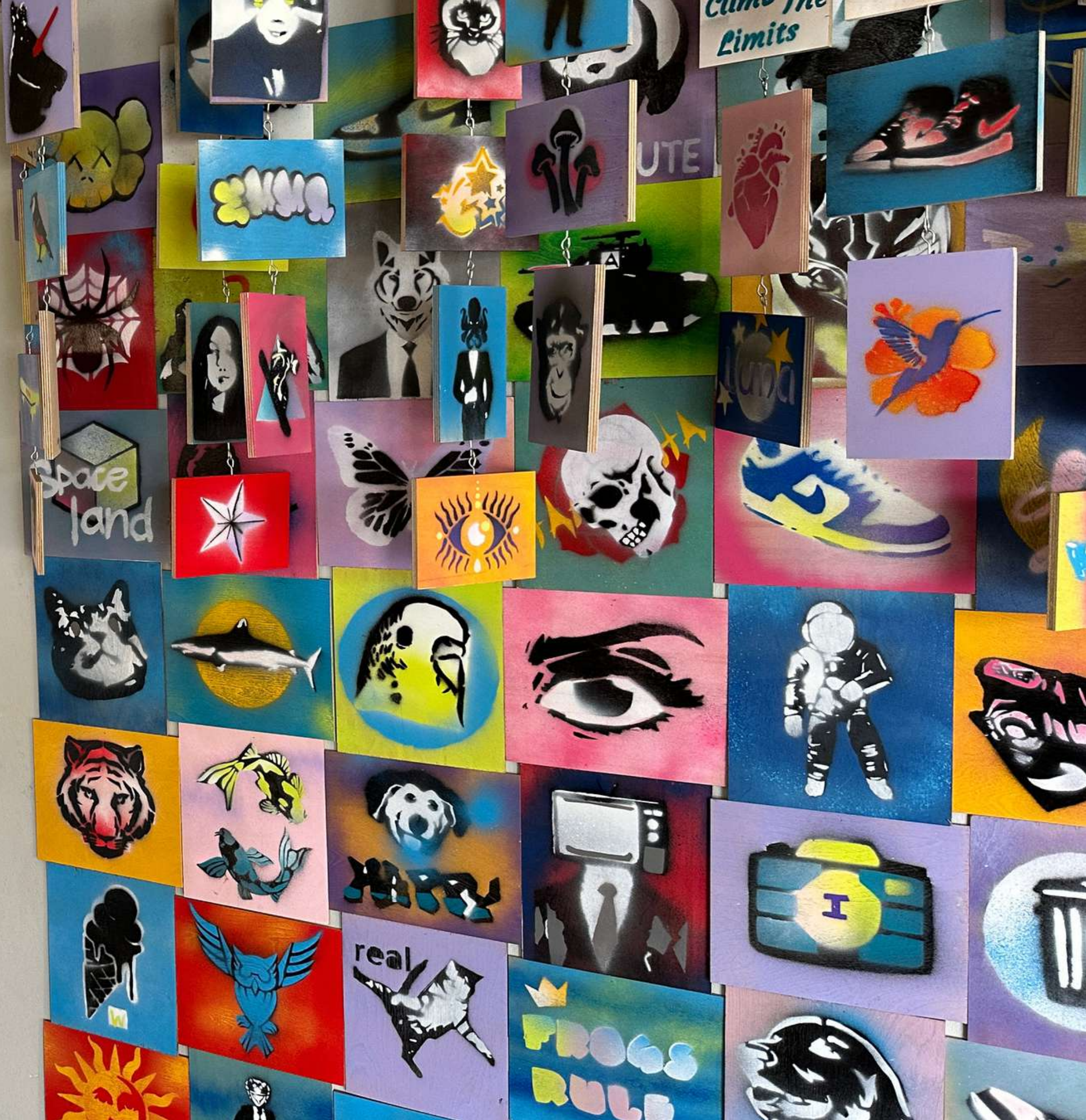
AUGUST							SEPTEMBER							OCTOBER						
SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT

NOV 7-10  
MUSIC CANCELLED









6TH GRADE • STUDIO M

# STENCIL IT!

TAGGING/GRAFFITI/MURAL/STENCIL/STREET-ART

STUDENT ARTISTS LEARNED ABOUT THE IMPACT, EFFECT AND STYLE OF GRAFFITI AND STREET ART.

**FOCUS QUESTIONS**  
 How can graffiti and street art represent an individual and city culture?  
 Should graffiti be illegal or legal?  
 What is graffiti and the meaning and purpose of graffiti?

**ART CHALLENGE**  
 Created a double-stencil spray painted street art graffiti art piece

LOCATION	STYLE	SUPPLIES
HTMM	Street Stencil	Image, Stencil, Wood Panel, X-Acto Blades & Spray Paint



2023



# Col·laboració entre professors i desenvolupament professional

Importància de la col·laboració contínua entre els professors per millorar constantment la instrucció i el disseny del currículum.

Diverses oportunitats de desenvolupament professional disponibles per al personal de HTH, com ara la tutoria entre iguals, tallers i conferències.











Thinking about your personality AND who you are:  
which old school video game character best represents you?



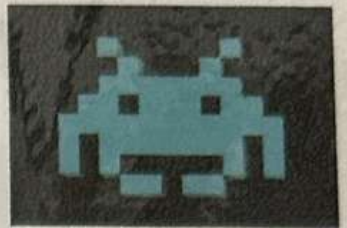
**Diddy King**  
Very fast, very quick. Clever, tricky and very sly. Must wear hat at all times. It has snacks in it. Also, has great friends and enjoys jumping around on his tail. Loves grabbing stuff with tail.



**Dixie Kong**  
Lighthearted, lively, and even has a bit of a sass. Courageous with a strong sense of adventure. Has a particular fondness for sweets, such as bubble-gum. Loves music.



**Q-BERT**  
An extra-dimensional being of unknown origin who possesses immeasurable power over time, space, the laws of physics, and reality itself, being capable of altering it to the needs. Also, can be intense and sometimes trips and lands on face.



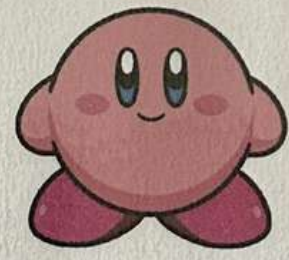
**FHRTZ (SPACE INVADER)**  
Derts berdk se lajjjjsszz flkj aeir srrtuf hj kjasjfi 17asdhd9 diejr/kj cbue buueefm8 ljfd% iaksjd ihs se zzzzz rrrrji askjim asjchu nask ski posfjie poop dnacun booger alksjd hjf fart.



**Blinky**  
Always aims to acheive goals, does not let anything get in the way of success. Enjoys floating above peoples heads. Thinks video games and movies are awesome. Cares and values true riendship.



**Mario**  
So kind, gets 100 gold points. Heart of gold! Loyal, friendly and wants everyone to laugh and smile every day. Charming, adventours and will always aim for the best.



**Kirby**  
Loving, fun, silly and uses laughter to survive. Oh, and also eats everything. Very curious and loves wondering around. Not afraid of anything. Loves trying new things and meeting new people.



**Link (from Zelda)**  
Warrior. Brave and strong. Never says anything bad. But...sometimes acts before thinking. Confident but yet has several emotions. Usually chill and quiet until taking on a challenge - then ready to fight!



**Princess Zelda**  
Highly skilled. Highly intelligent. Caring, gracious, and self-sacrificing person. Compassionate and self-less. Will fight the world just to protect others.



**Toad**  
Is childishly peppy and encouraging, virtually never showing an unhappy moment. Has the ability to make everyone smile. Usually thought can be shy and timid but really cares about



**Sonic**  
Hates oppression and staunchly defends freedom. Is mostly quick-witted and easygoing. Has a short temper and is often impatient with slower things. A habitual daredevil who is honest, loyal to friends, keeps



**Mega-Man**  
Engineer, maker, scientist, inventor and master at creating things with awesome purpose. Incredible curiosity and questions the world. Will aim to solve

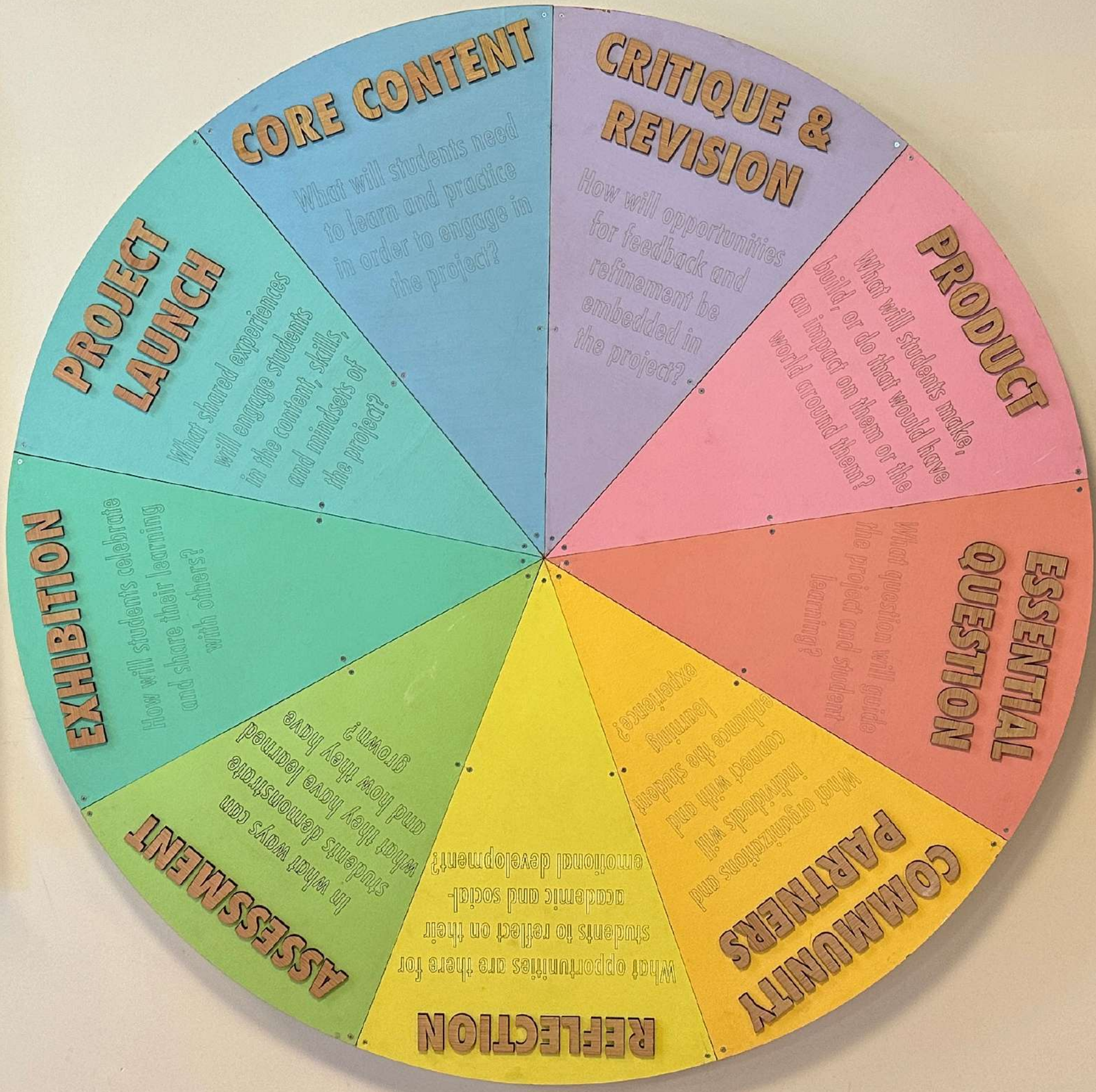




# *Fases dels projectes*









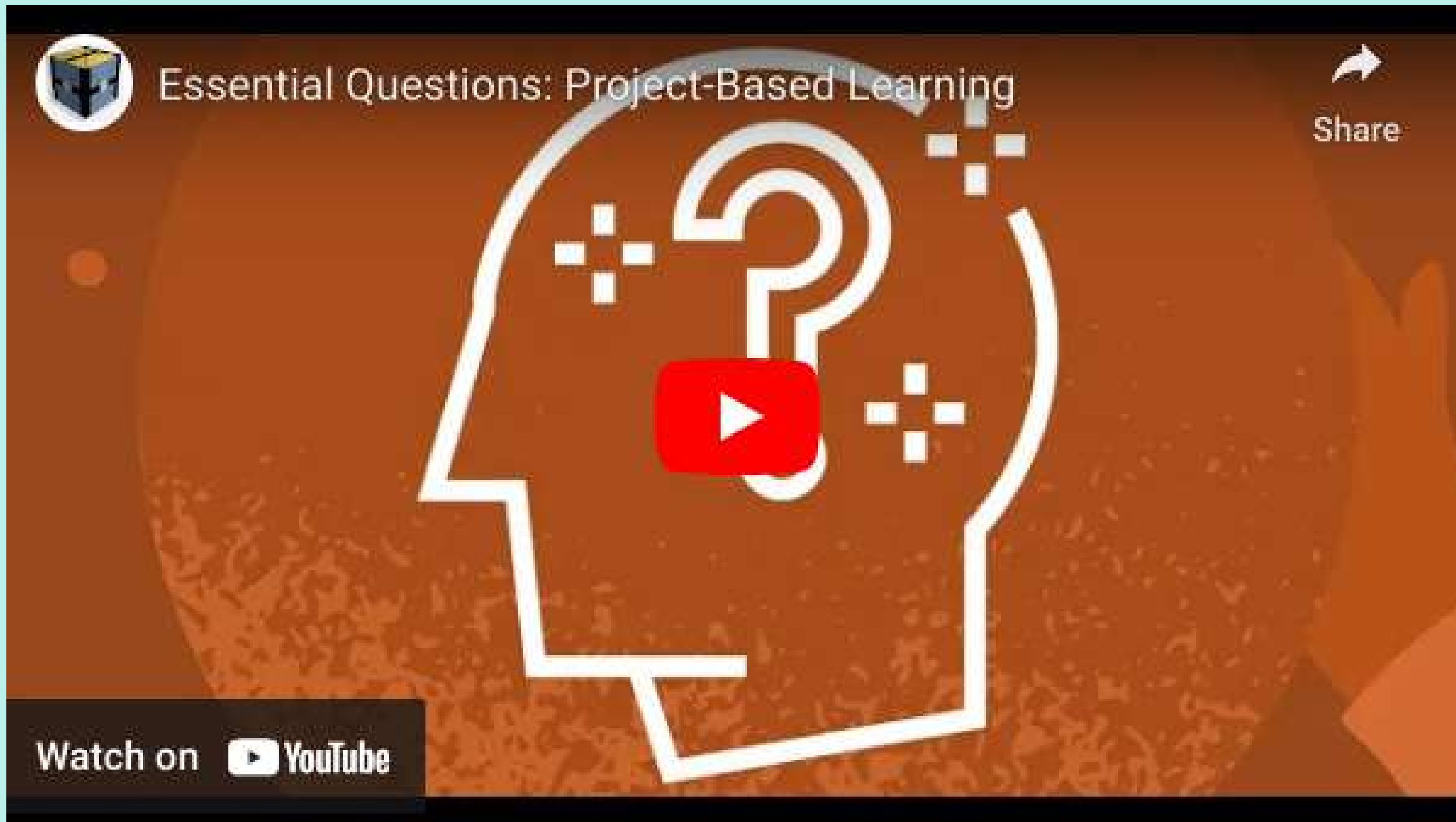
# LLANÇAMENT



TAP  
HERE




# PREGUNTAS ESSENCIAIS



Essential Questions: Project-Based Learning

Share

Watch on  YouTube

The image shows a YouTube video player interface. The main content is a graphic with a brown background. It features a white outline of a human head in profile, facing left. Inside the head is a large white question mark. Surrounding the question mark are several small white squares arranged in a grid-like pattern, some of which are slightly blurred, suggesting motion or a digital theme. A red YouTube play button icon is centered over the question mark. In the top left corner of the video frame, there is a small circular profile picture of a person with a blue and yellow background. In the top right corner, there is a white share icon and the word 'Share'. At the bottom left, there is a black bar with the text 'Watch on' followed by the YouTube logo and the word 'YouTube'. The overall aesthetic is clean and educational.

TAP  
HERE



# IDEACIÓ



TAP  
HERE



# CRÍTICA



TAP  
HERE



# COMPETÈNCIES I DESTRESES



HTH PBL Design Kit: Academics—Cycles of Inquiry

Share

Watch on  YouTube

The image shows a YouTube video player interface. The main content is a large, stylized white graphic on a dark blue background. The graphic consists of a circular shape on the left with internal patterns, and a series of interconnected lines and circles on the right, resembling a network or a stylized figure. A red play button is centered over the graphic. In the top left corner, there is a small circular icon of a building. In the top right corner, there is a share icon and the word 'Share'. In the bottom left corner, there is a black bar with the text 'Watch on' followed by the YouTube logo and the word 'YouTube'. In the bottom right corner, there is a blue hand-drawn style text that says 'TAP HERE' with small lines around it.

TAP  
HERE



# ESBORRANYS I REVISIÓ



TAP  
HERE



# EXHIBICIÓ



The screenshot shows a mobile application interface. At the top left, there is a circular profile picture of a person and the text "Exhibition: Project-Based Learning". To the right of this is a "Share" button with a white arrow icon. The main content area features a large white line-art illustration of a person sitting at a desk with a computer, overlaid with a red YouTube play button icon. At the bottom left, there is a black button with the text "Watch on" and the YouTube logo, followed by the word "YouTube".

TAP  
HERE



# AVALUACIÓ



TAP  
HERE



# REFLEXIÓ



TAP  
HERE





*Exemples de projectes*





# EXEMPLES DE PROJECTES STEAM

## CIÈNCIA

- Química
- Oceanografia
- Astronomia
- Anatomia
- Genètica
- Medi ambient
- Psicologia

## TECNOLOGIA

- A.I.
- Mitjans digitals
- Codificació
- Desenvolupament d'aplicacions
- Robòtica

## ENGINYERIA

- Mecànica
- Aeroespacial
- Ordinador
- Elèctric
- Biomèdica
- Estructural

## ART

- Disseny web
- Disseny gràfic
- Escriptura
- Teatre
- Dibuix
- Pintura
- Fotografia

## MATEMÀTIQUES

- Estadístiques
- Àlgebra
- Geometria
- Càlcul



# PROJECTES I ALTRES MATERIALS

Created by [elenavercher](#)

Powered by [wakelet](#)

## High Tech High

24 Items

Descripció, projectes i materials de l'estada al High Tech High a San Diego.

### About

 [hightechhigh.org](https://www.facebook.com/hightechhigh.org)

Developed by a coalition of San Diego civic leaders & educators, HTH has evolved into a network of 16 charter schools. Learn more about our schools today.

### Projects





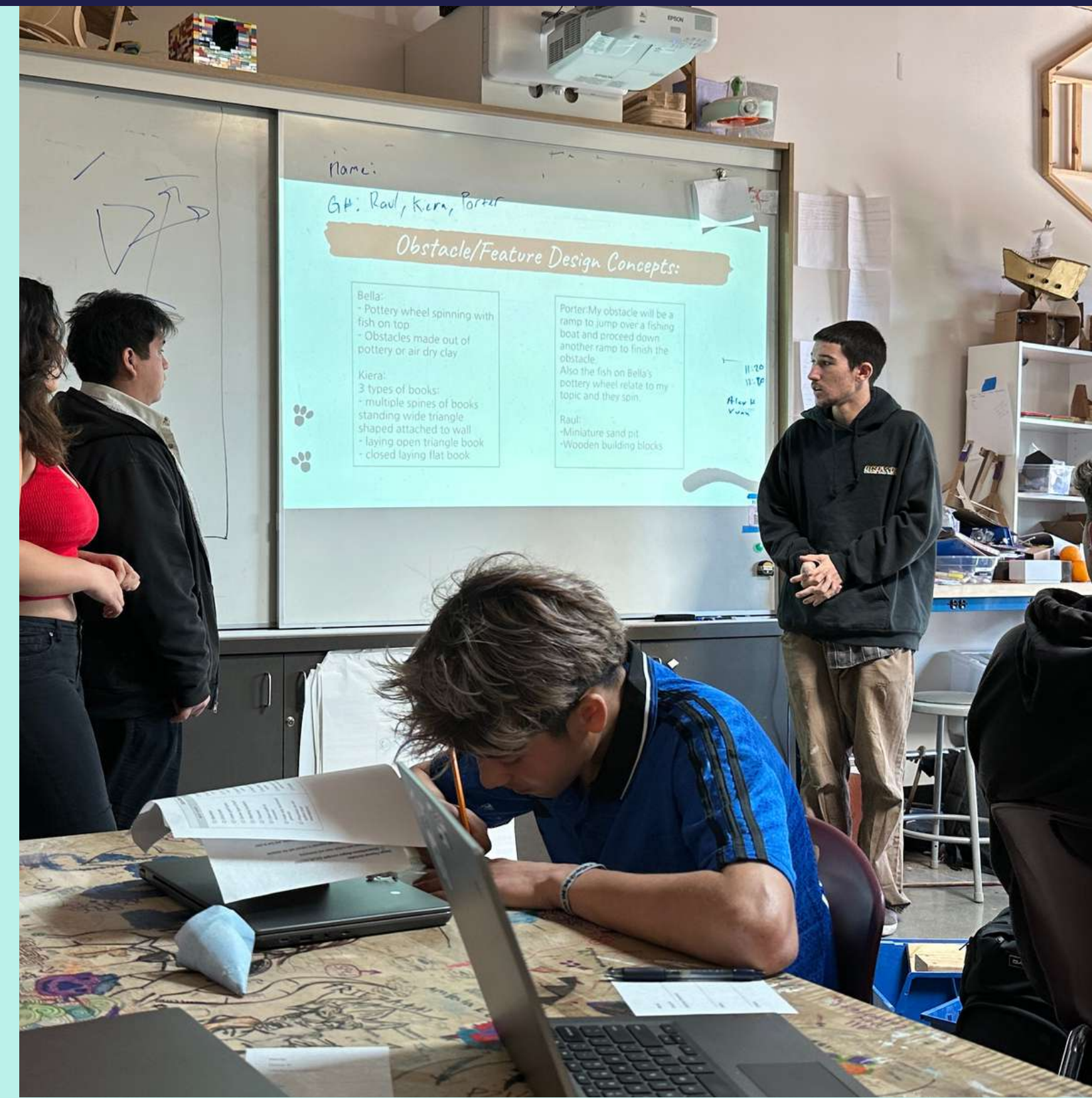
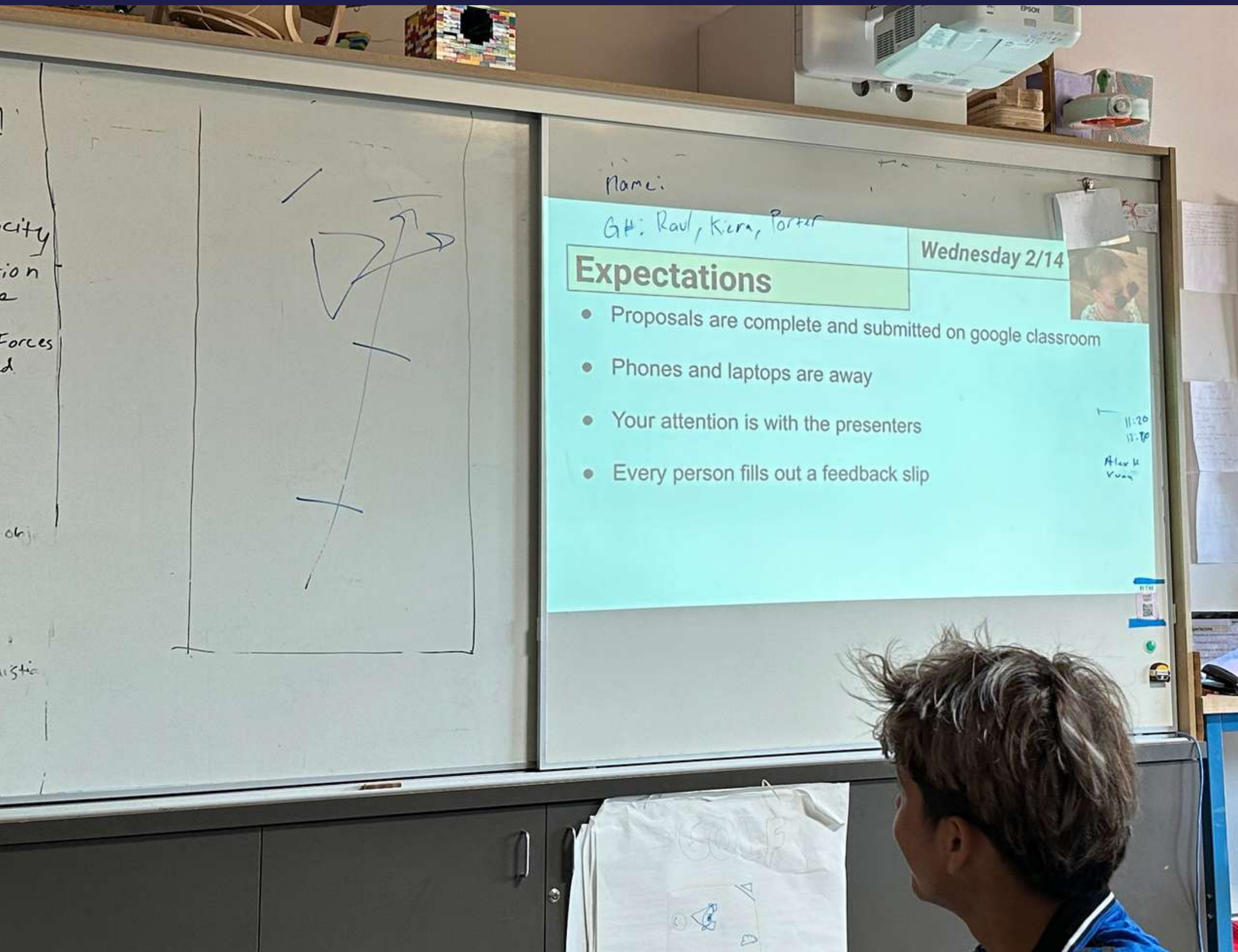


Què ens podem emportar a  
l'aula?





# DEEPER LEARNING (APRENTATGE PROFUND)



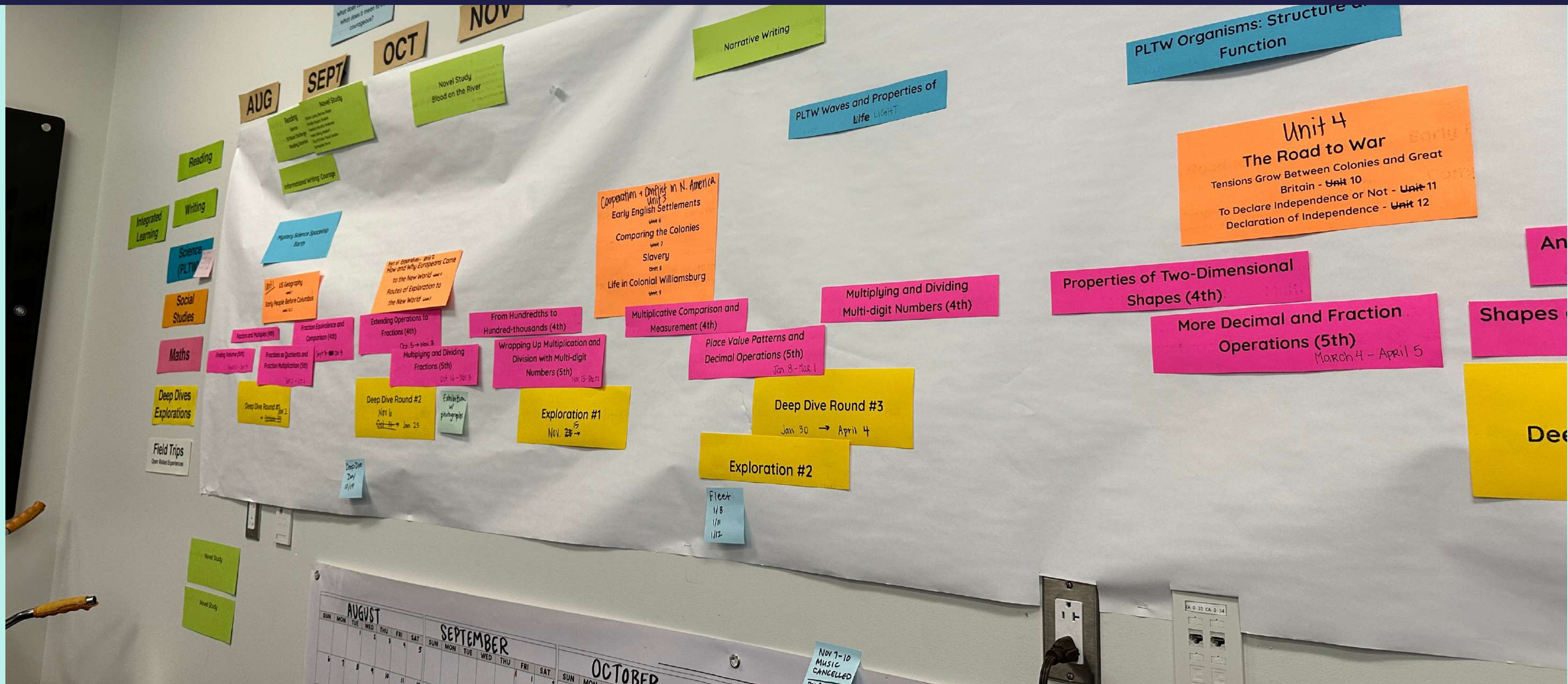


# ESTRATÈGIES DE PENSAMENT PER AVALUAR





# IMPORTÀNCIA DEL CURRÍCULUM







ALGUNA  
PREGUNTA?

