



MD 2022 DESIGN PRIZE

The Michigan Design Prize
2022 AWARDS CEREMONY



Michigan
Design
Council

BRONZE AWARD



Kylie Lindsley



Rylan Schutter



Brea Geurink



Luke Brower



Paityn Breuker



Piper Adamson

“Krazy Kourse”

School: **Bentheim Elementary**

Teachers: **Ashley Meyer and
Melinda Bronkhorst**

Mentor: **Pro: Connor Riegle**



Morgan Murphy

Design Concept:

Our idea is an obstacle course. The order is Hurdles and Parcore, Cargo net, Big slide, Monkey bars, Trampoline, Zipline, Braided ropes, and a rock wall. When done you hit a buzzer. There is a ball pit under some obstacles. There is also a course for those with physical limitations.

**Race your friends in the
Krazy Kourse obstacle course!
Wheelchair accessible,
all of your friends
can play!**

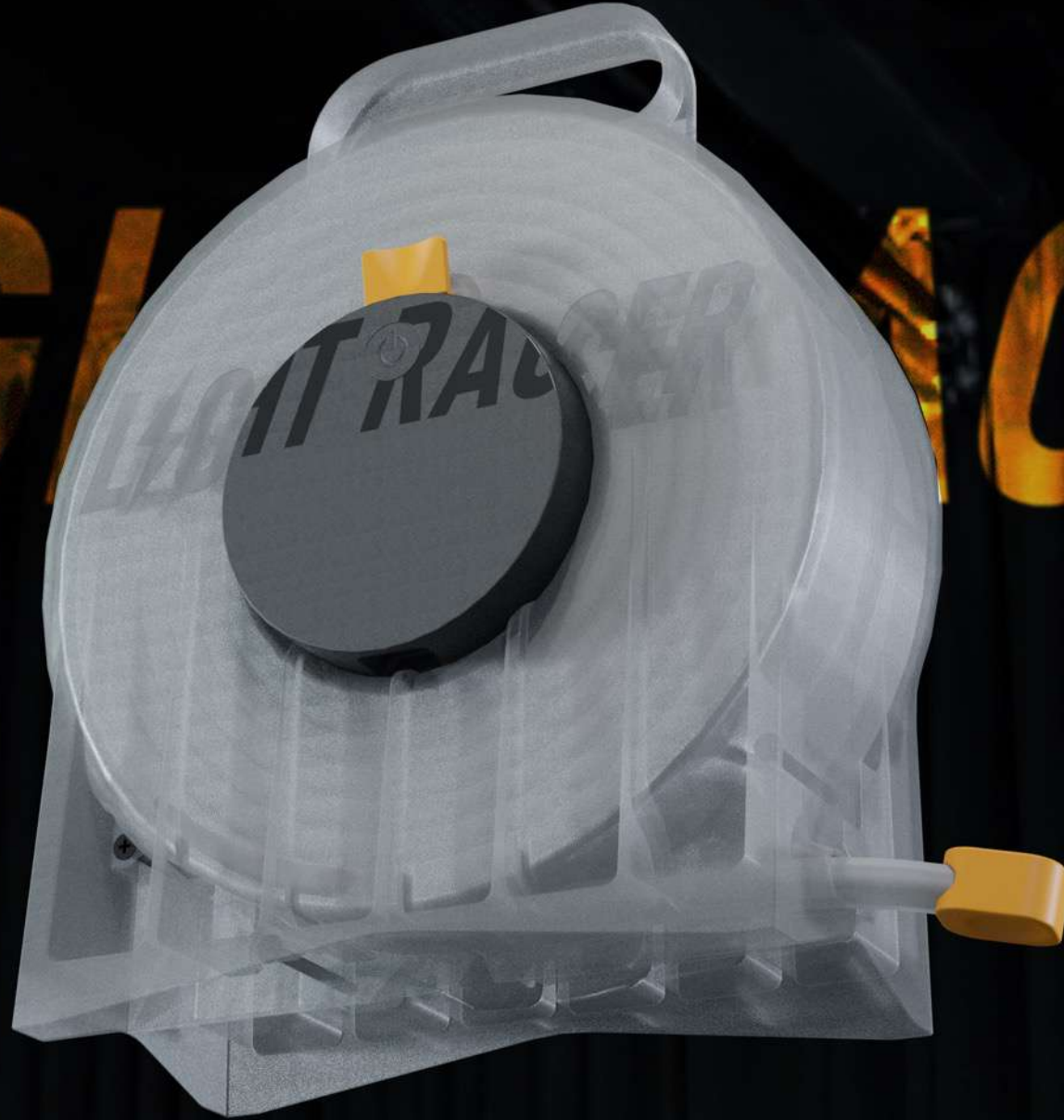


**Krazy
Kourse**

SILVER AWARD**Rowan Peart*****“The Light Racer”*****School: Spencer Elementary****Teacher: Gillian McColgan****Mentor: Pro: Drew Lark****Jeffery Chang****Design Concept:**

This product is designed to make exercise fun again! It can be used anywhere, by anyone! Roll out the Light Racer tape on any surface, step on it to start your race! Race the light and step on it again to stop it. It displays your time and speed.

LIGHTRACER



COMPETITIVE BENCHMARKING LIGHT STRIP RACER.

A portable easy to use light strip racer to make exercise fun again. Pull out the light strip, place the pucks at either end, and choose to race against yourself or friends on the LIGHTRACER app.

GOLD AWARD

“Air-WO-Bic Shoe Calendar”

School: **Lakewood Elementary**

Educators: **Denise Smyk & Amy VanAllsburg**

Mentor: **Pro: Jonah Griffith**



Edem Eminov



Paul Hilarides



Keyona Hawkin



Kaylinn DeWitt



Izzy Gitler



Colten Van Dellen



Caroline Honey



Bristol DeVries



Blake Theobald

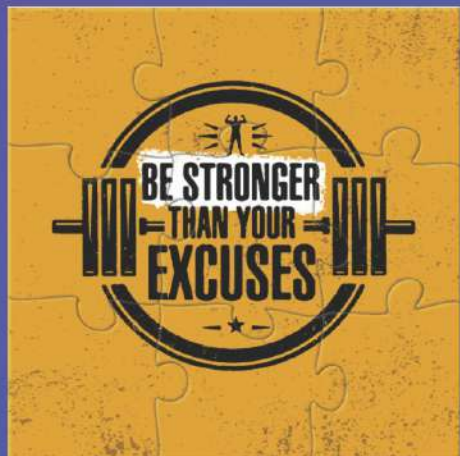


Sadie Vellinga

Design Concept:

Use Air-WO-Bic, a brightly colored shoe calendar which includes a variety of daily exercises, pockets with puzzle pieces that build motivating monthly quotes, and surprise prizes—all under reusable stickers. Enjoy the different levels of exercises that you can switch around according to your plans. GET FIT!

Each shoelace contains
a puzzle piece



AIR-WO-BIC

THE SHOE CALENDAR

Flip the magnetic
"BICS"
to reveal new
exercises each
day



Collect all puzzle pieces to
put together a motivational
quote

BRONZE AWARD

**Julia Oliveira
de Paula Eduardo**



“Ice Party Boot”

School: **Spencer Elementary**

Teacher: **Marina Oliveira**

Mentors: **Pro: Matthew McPhail
Shauryavratt Kapoor &
Francis Bazil**



Design Concept:

The Ice Party Boot is made for walking safely on a frozen lake. It has a sensor to indicate if it's thick enough and has colorful lights and music for Party time mode.

ICE SENSOR BOOT



The **ICE SENSOR BOOT** has various sensors built into the snow boots like the ability to change into disco mode whenever the children are dancing on the dance floor and detect danger when near water bodies in icy lakes as indicated by the change of color in the soles of the boot



SAFE



WARNING



DANGER



SILVER AWARD**Mackenzie Bossary*****“The Watch for Waves”***

School: **Home Education**

Teacher: **Lianna Bossory**

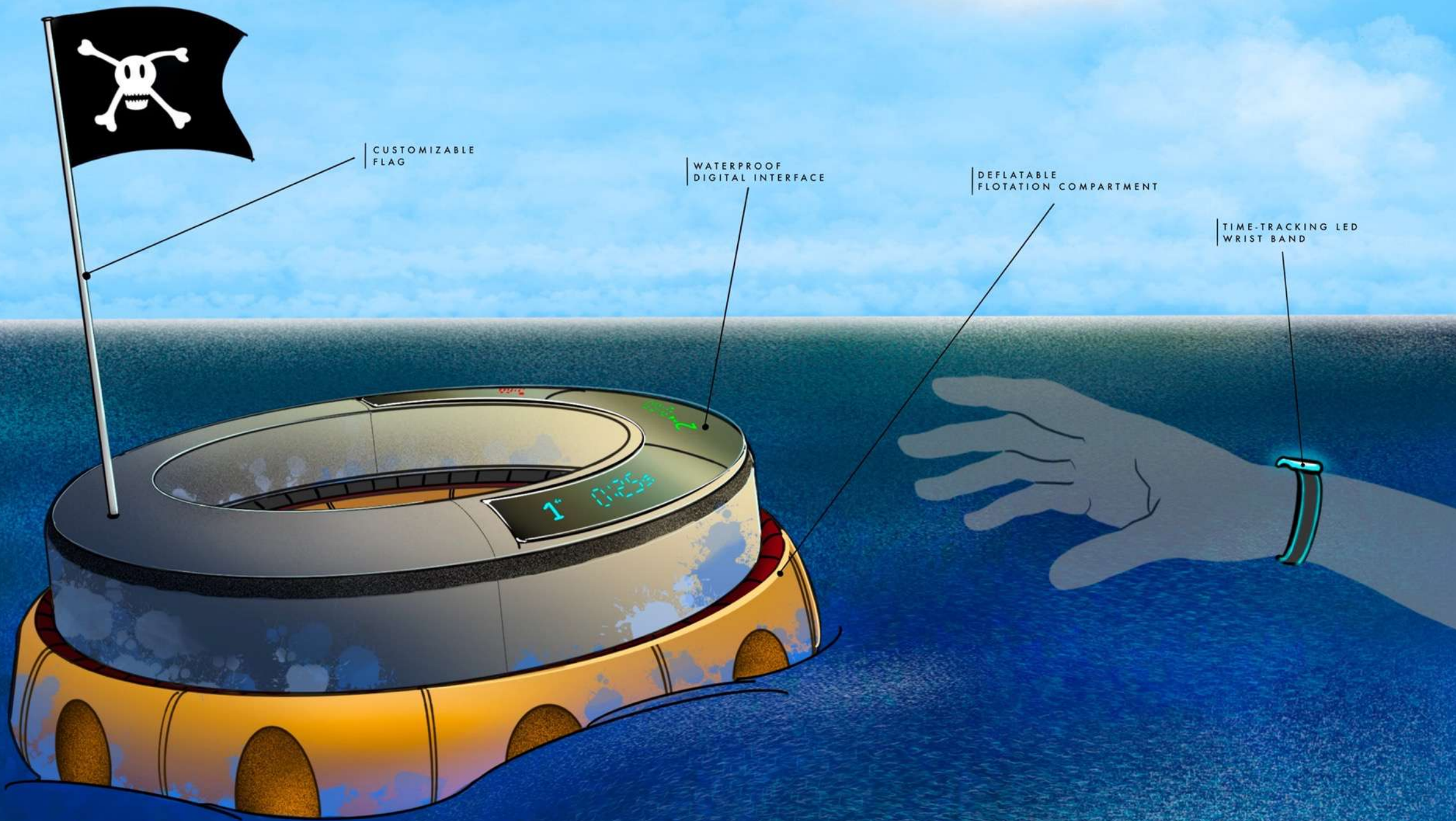
Mentor: **Pro: Evan Crawford**



Cole Williams

Design Concept:

I designed waterproof watches that can sync up to buoys in the water so that swimmers can play a water relay race. A judge gives challenges by sending voice messages through the watches. A challenge is complete when a swimmer reaches a buoy and the buoy scans their watch.



CUSTOMIZABLE
FLAG

WATERPROOF
DIGITAL INTERFACE

DEFLATABLE
FLOTATION COMPARTMENT

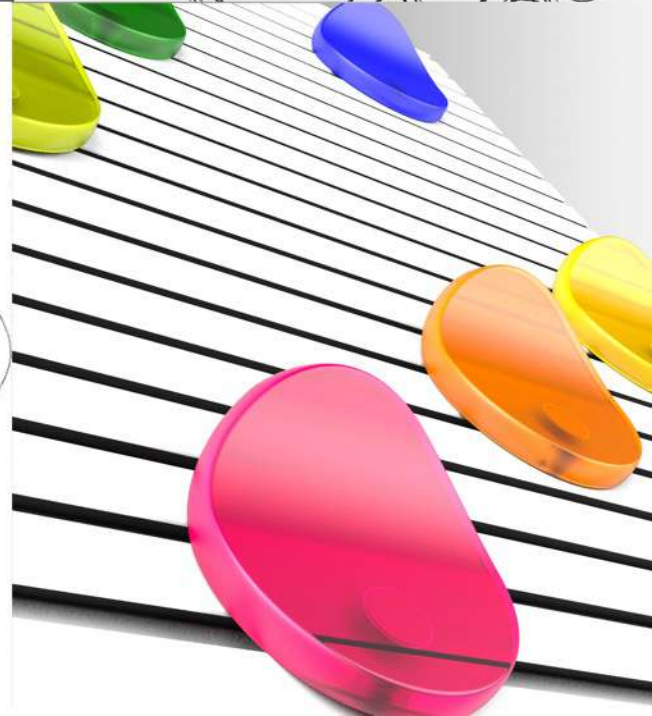
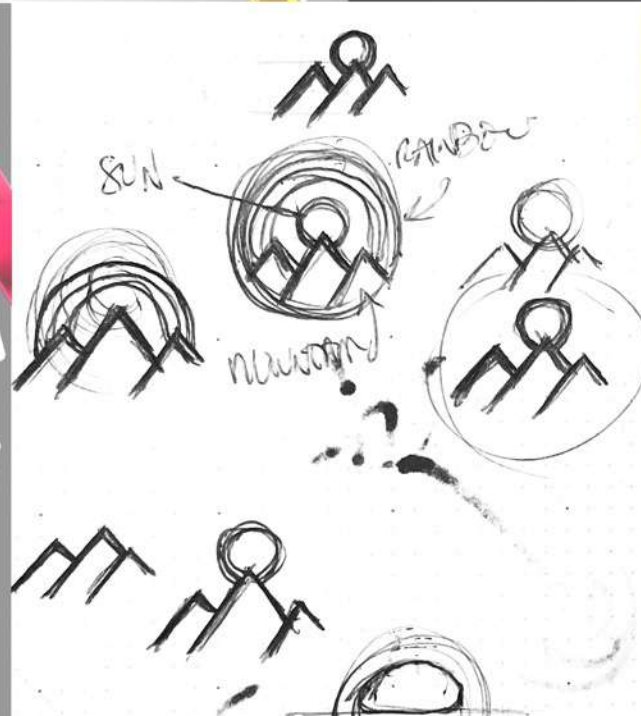
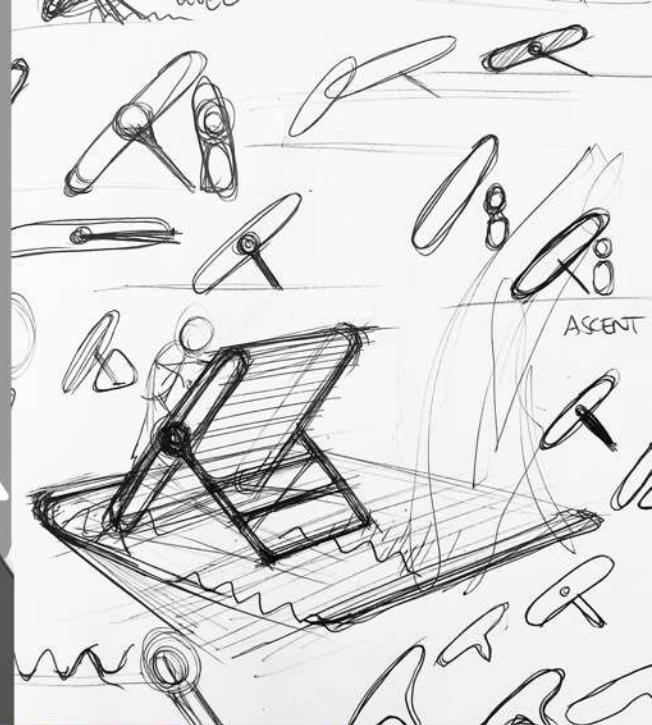
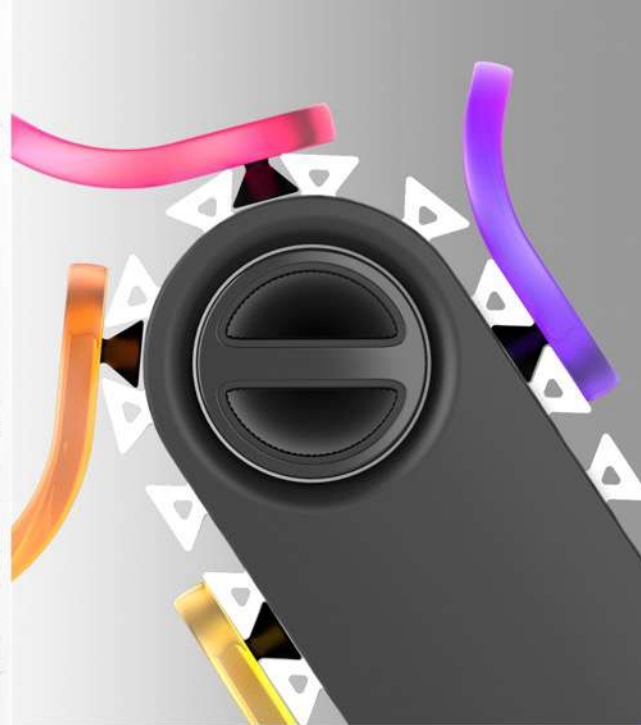
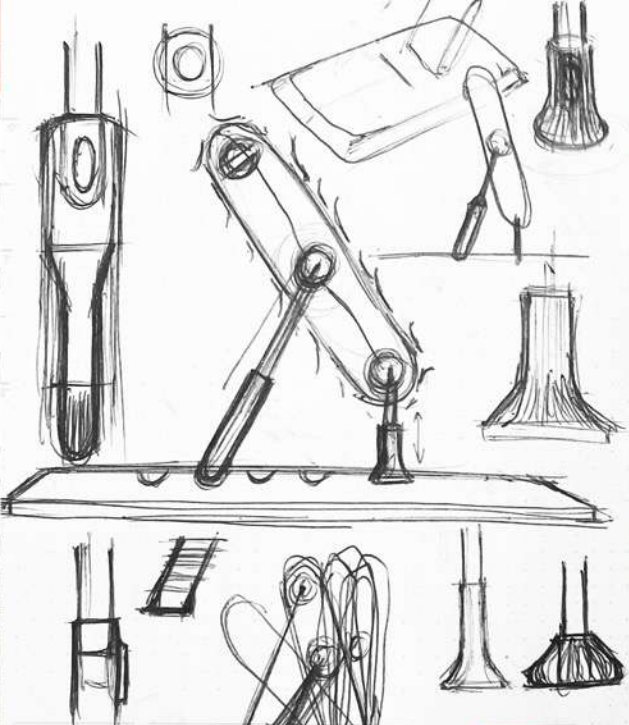
TIME-TRACKING LED
WRIST BAND

GOLD AWARD**Willow Arens*****“Rainbow Rockwall Treadmill”*****School: Roosevelt Elementary****Teacher: Lianna Bossory****Mentor: Pro: Matt Marrocco****Isabella Hadous****Design Concept:**

A rock wall that moves up and down like a treadmill. The course lights up the path with rainbow colors. You can race your friends online and share the courses you like to do.

Rock Wall Treadmill





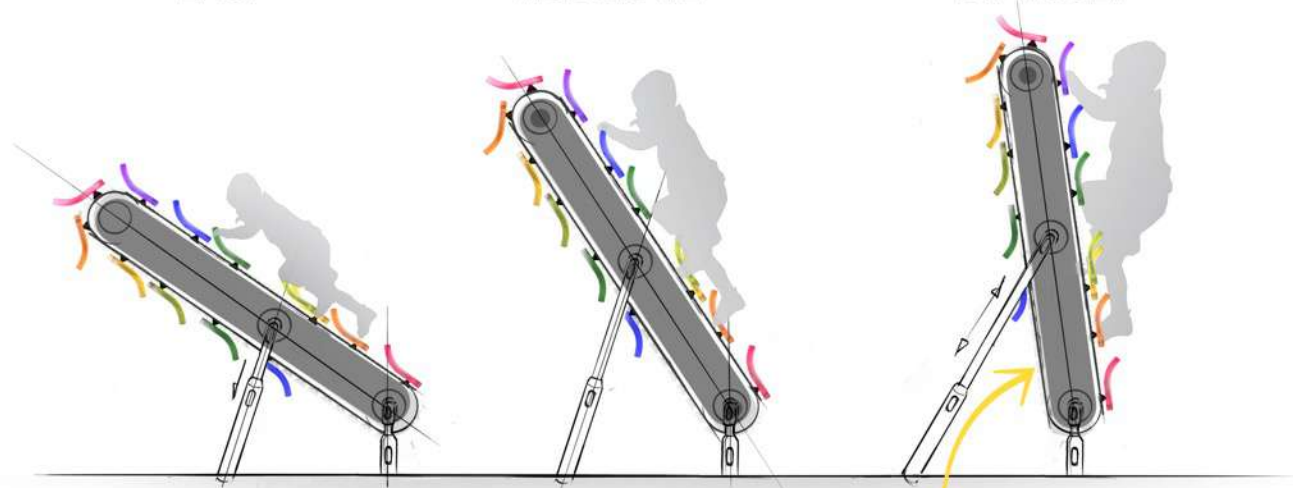
Rainbow Rockwall Treadmill



EASY

MODERATE

DIFFICULT

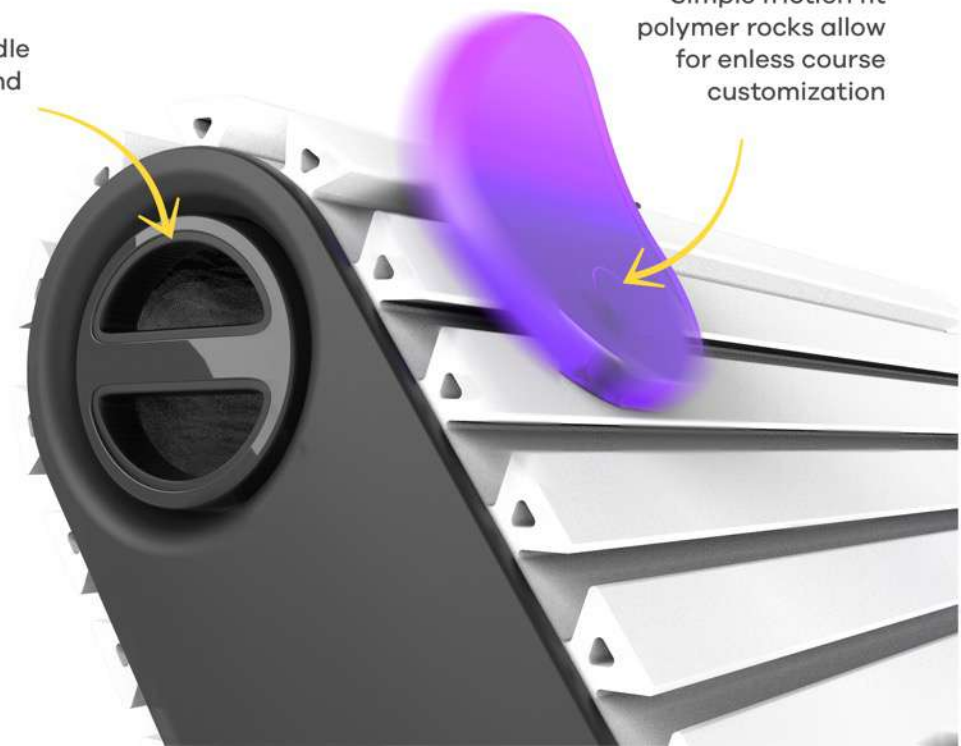


Adjustable frame allows for continued use through childhood

Integrated grip handle
assists in stowing and
adjusting the unit

Extruded rubber belt is
durable and the textured
finish provides traction

Simple friction fit
polymer rocks allow
for endless course
customization



BRONZE AWARD**Bailey Loiselle*****“Fun in the Sun”***School: **Maltby Intermediate**Educator: **Catherine Wagner**Mentors: **Pro: Josiah LaColla****Morgan Murphy****Design Concept:**

Imagine a park or yard in the summer. Instead of wood chips, it's a flat surface with drains and sprinklers. go and play, choose a pattern the sprinklers spray. You run and play, chasing after the sprinklers. Instead of water building up, it drains. There is also a leader board.



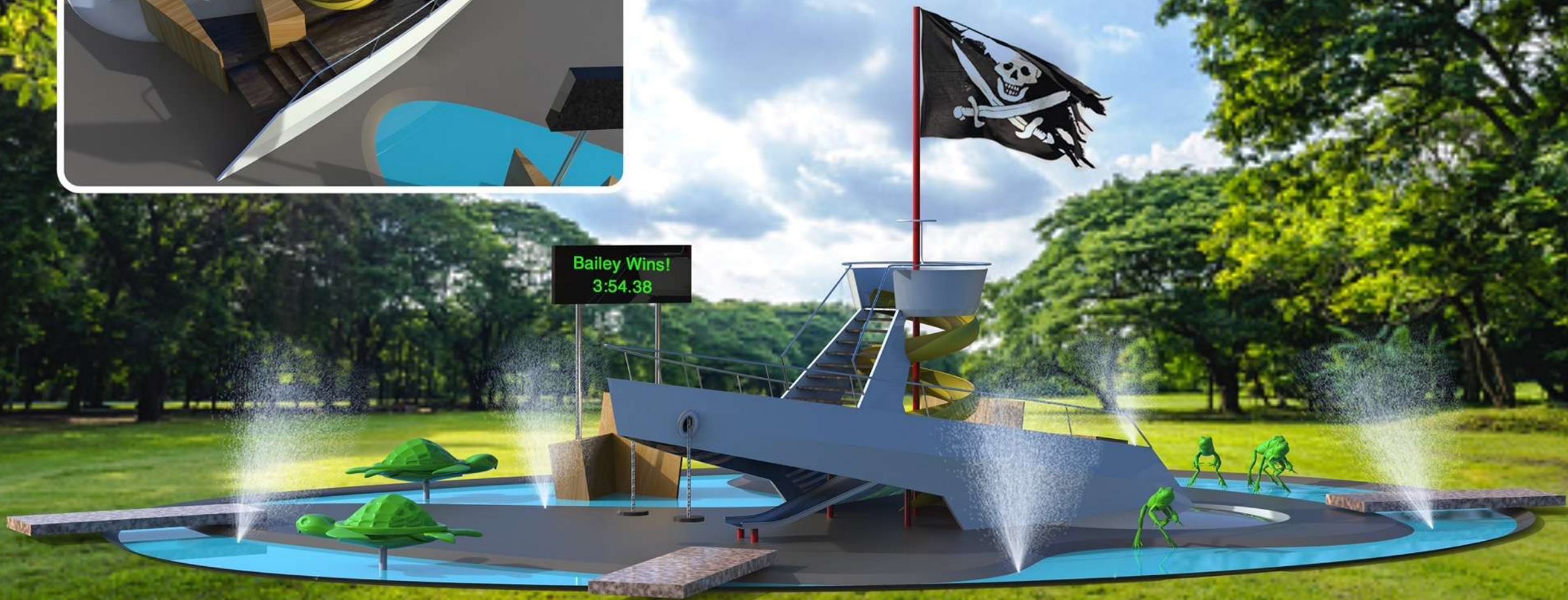
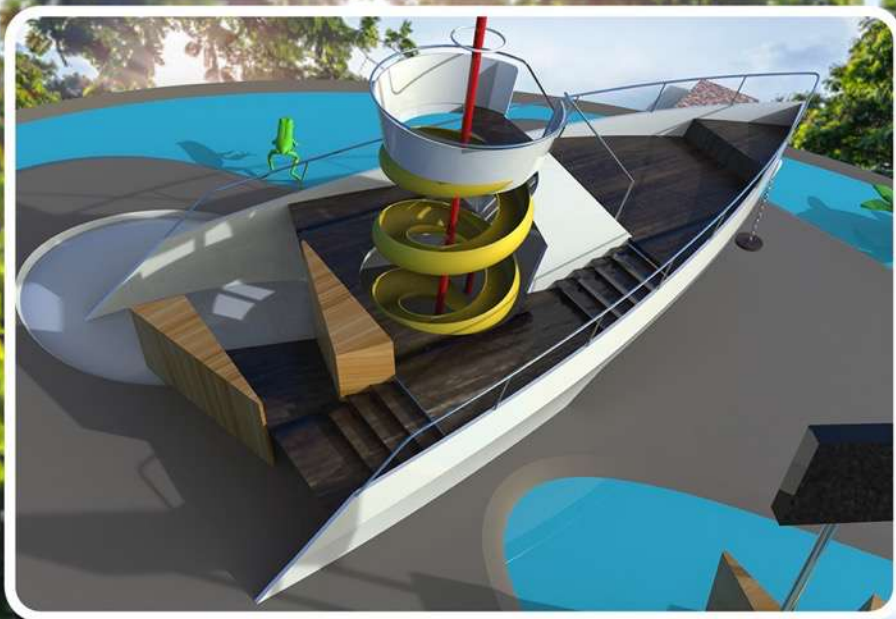
Log in to the kiosk to start playing!

Ready to win?

Leader board tracks progress

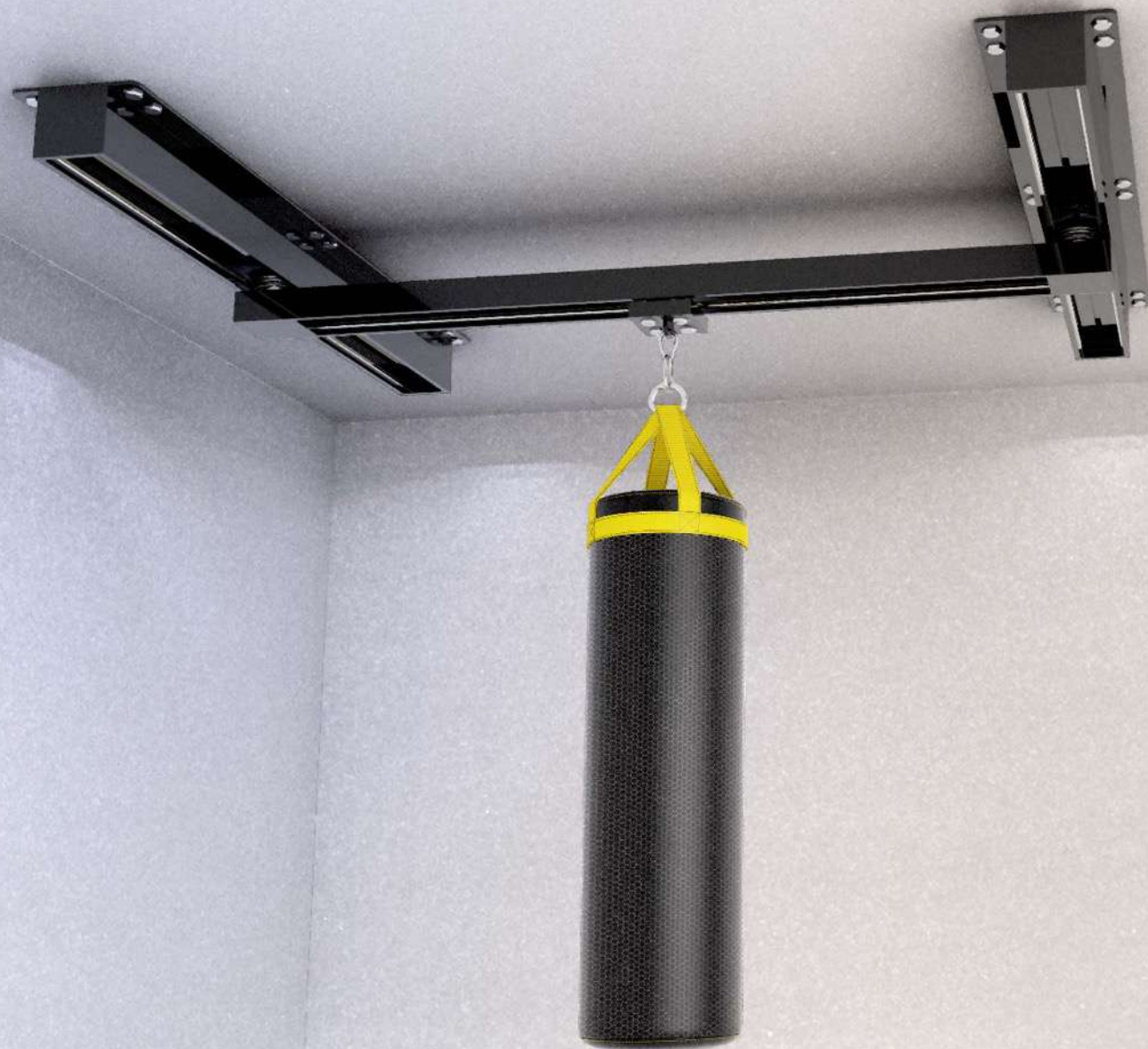
LEADER BOARD

Player 1	100%
Player 2	80%
Player 3	60%
Player 4	40%



SILVER AWARD**Kaisa Stone-Palmquist*****“The Moving Punching Bag”*****School: Washtenaw International
Middle Academy****Educator: Tammy Church****Mentor: Pro: Adam Paquette****Carla Langfeldt****Design Concept:**

My concept is a moving punching bag. This product works by attaching a punching bag to a small motor and the pulley is attached to the axis to move. This product gives a full body workout that improves reflexes, cardio performance, muscle growth, has greater difficulty, and decreases anger.



THE
MOVING
PUNCHING
BAG.

GOLD AWARD**Preston Wilson*****“Exercise-To-Order”***School: **Maltby Intermediate**Teacher: **Mrs. Catherine Wagner**Mentor: **Pro: Arthur Brown****Wyeth Tocco****Design Concept:**

My design helps keep people from getting bored with their traditional playground equipment. It does this by completely changing its sole purpose along with the user's wants. This will get the people of Michigan who don't like traditional playground equipment (or who liked it, but it has gotten boring).

EXERCISE-TO-ORDER



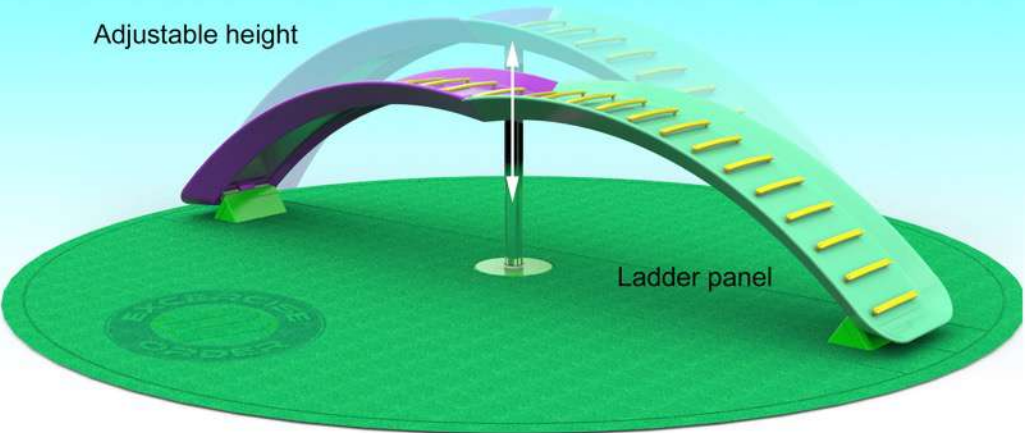


Configurable playground equipment that keeps kids interested and active!



Colorful metal and plastic materials

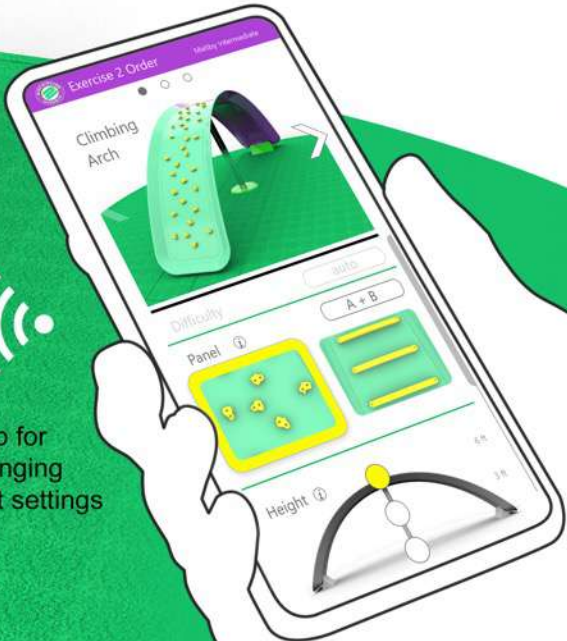
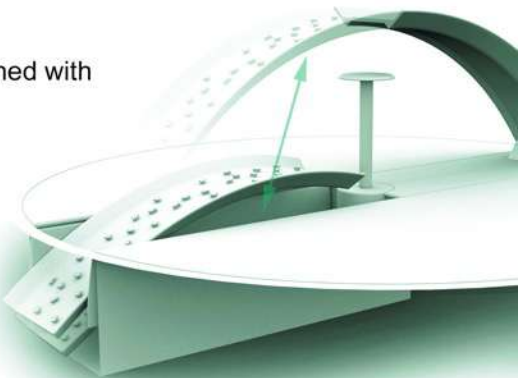
Rock wall panel



Adjustable height

Ladder panel

Climbing panels are switched with those stored underground



Phone app for easily changing equipment settings

BRONZE AWARD



Nathan DeFillippo



Emanuel Jabow



Alessandro Bally



Christopher Douthet

“The Scoot-Scoot”

School: **Adlai Stevenson High School**

Educator: **Mark Lacombe**

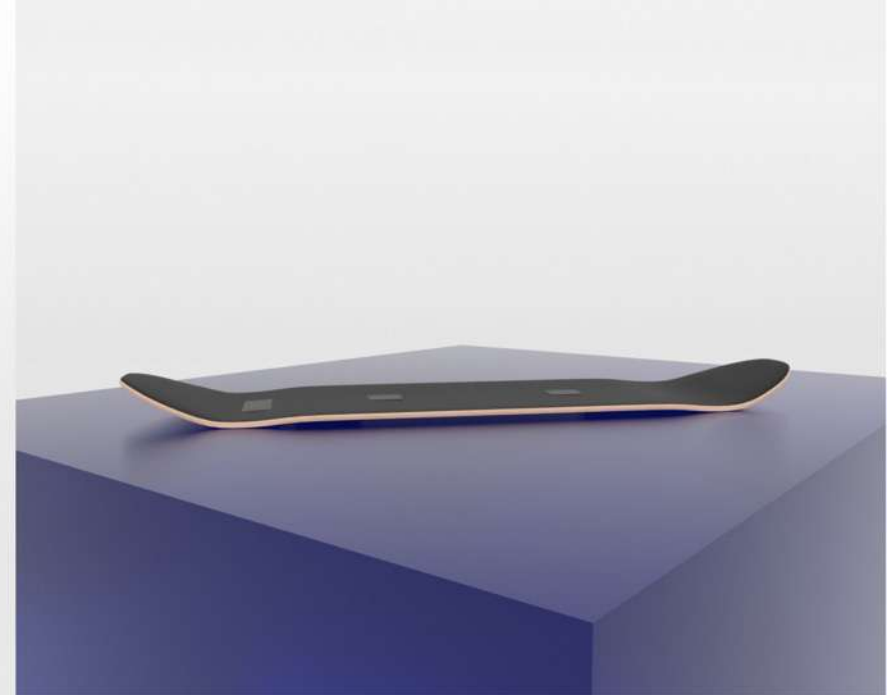
Mentor: **Pro: David Byron**



Achsah Tom

Design Concept:

The Scoot-Scoot is a multifunctional skateboard. You can use it for skating, snowboarding, or as a scooter! This works with detachable wheels, handlebars, and snowboard cover. Download Scoot-Scoot mobile and join a community where you can learn from tutorials, interact with people’s videos, and upload your own!



SILVER AWARD***“Inside Recess Activity”***

School: **Branch Area Careers Center**

Educator: **Marvin Gage**

Mentors: **Pros:**

tekna. **Tony De Leo &
Kyle Spieker**



**Caleb
Jones**



**Brianna
Omo**



**Steven
Covell**

Design Concept:

The Inside Recess Activity [I.R.A] is an exercise toy that encourages teamwork and equality in the classroom. The design concept allows all children to participate, regardless of physical disabilities, which is the guiding principle of our project. Furthermore, this classroom toy builds community and a sense of belonging.



Fun,
Engaging, &
Interactive

Teamwork &
Building
Community

Personalization
& Individualism

Inclusive for
Everyone



Interactive Light

LED interactive light lights up sequentially with more rotations. When the peak goal is reached the top LED spotlight spins and lights up.

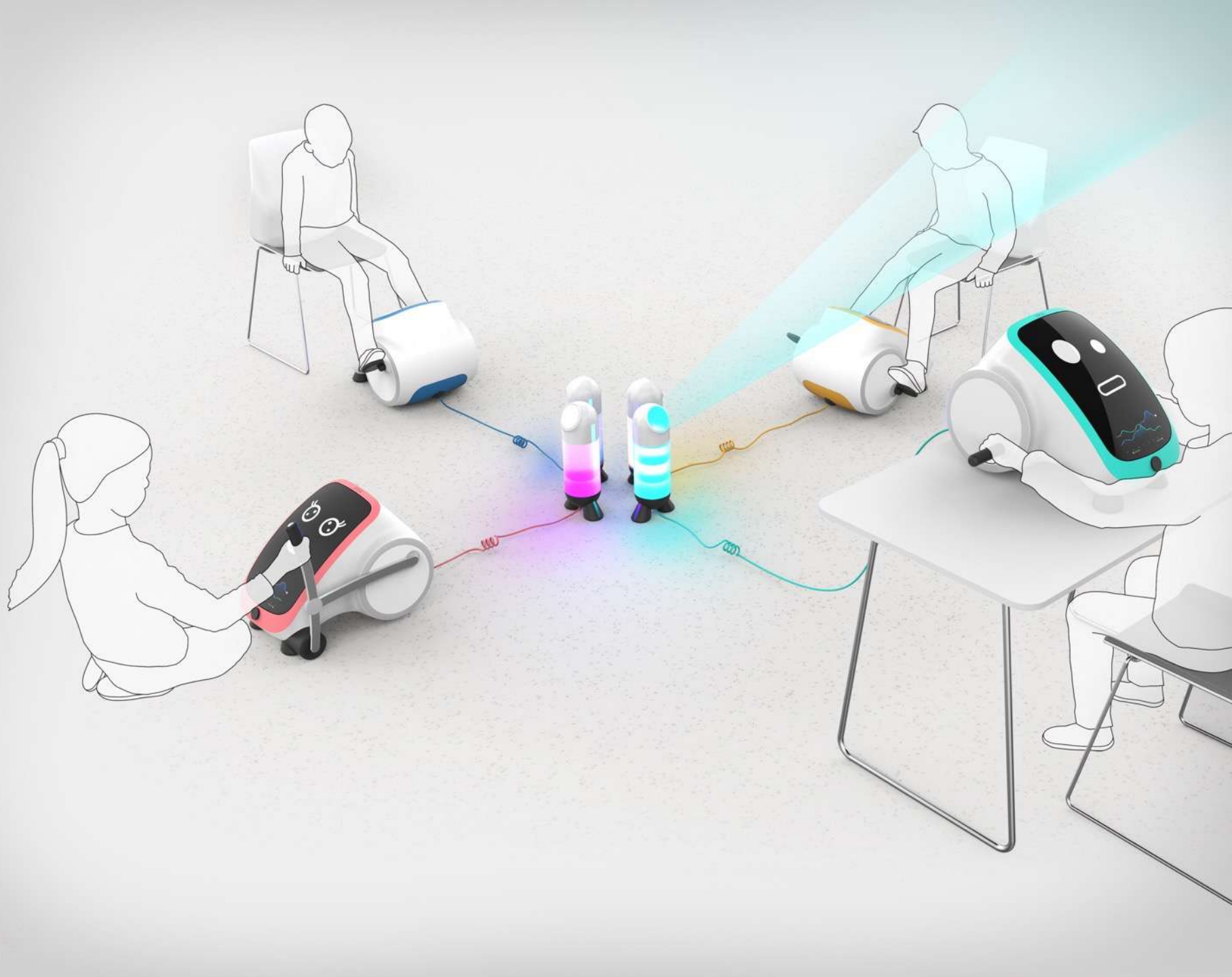


Custom Emoji's

Personalized fun keeps kids engaged. The tension adjustments knob makes for fair play.

Everyone can play

Multiple attachments allow play for all life's challenges (Rotary, Linear)



GOLD AWARD**Zachary Balckmer Landon Lawrence****John Sunday****Trenton Brown*****“The Lumber Yard”***

School: **Adlai Stevenson High School**

Educator: **Jesse Lombardo**

Mentor: **Pro: Austin Clark**



Wen Chen

Design Concept:

The Lumber Yard is the next hit playground for elementary schoolers to enjoy. This playground has all your favorite things, like trees to climb on, a zipline, a rope bridge, swings, and even a foam pit. You will be having so much fun you will never want to leave!

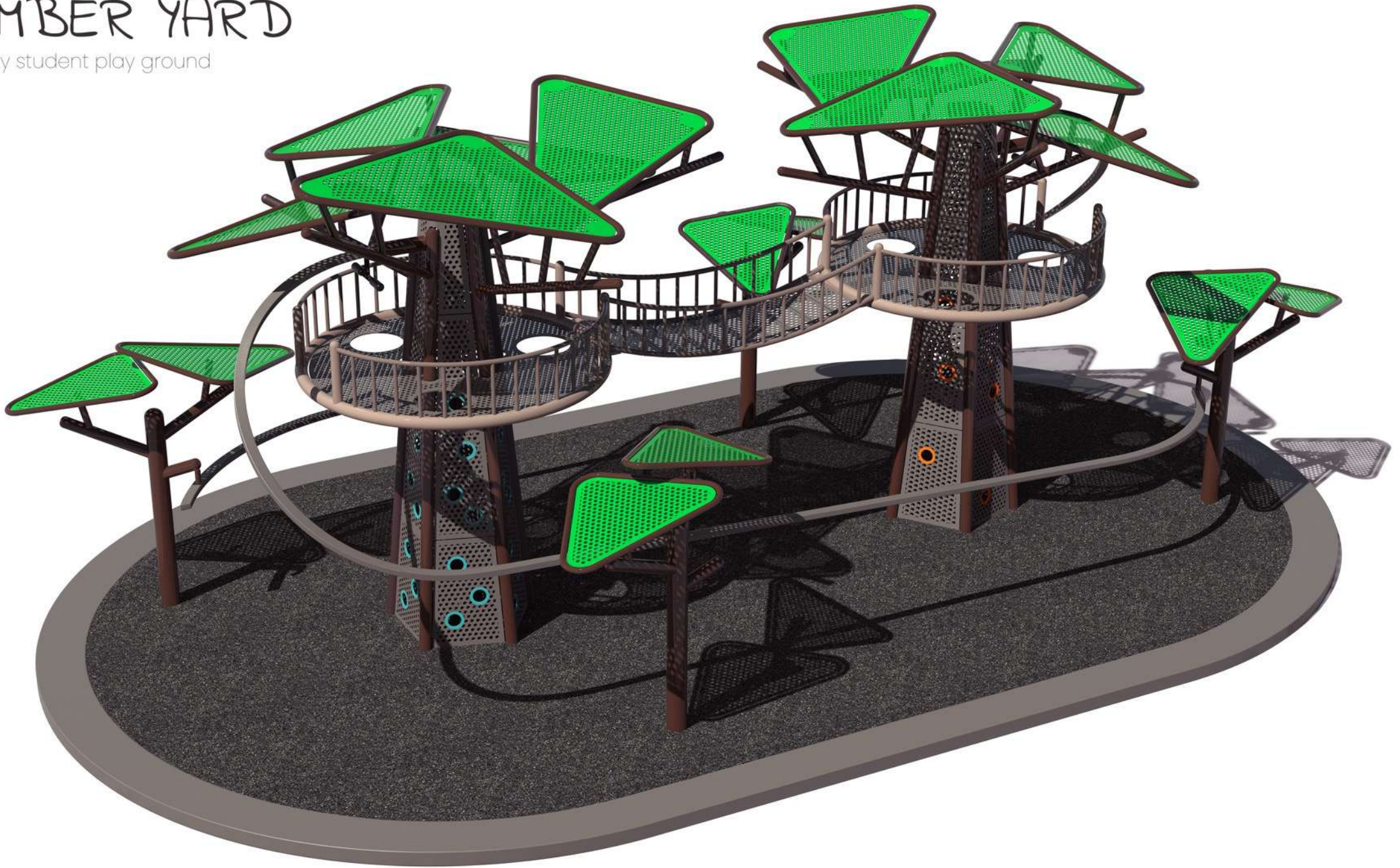


THE

LUMBER YARD

THE LUMBER YARD

elementary student play ground





2023 Michigan Design Prize Challenge:

Design a physical product that promotes the enjoyment of Michigan's lakes, rivers, and water parks.

Design solutions must focus on the needs and desires of K-12 youth. Areas to consider may include; learning to swim, water-sports and recreation such as boating or fishing, water survival equipment, and products to help learn about freshwater animal life.