Learn more at playpiper.com and make.playpiper.com



P I P E R

Jon Prove - Director, Channel Management **Piper Learning**













Google for Education Partner

Piper allows kids to build, tinker and explore in the physical and digital space.

To become **creators** rather than consumers of technology.

WHERE DOES PIPER FIT IN?

COMPUTER SCIENCE FOR ALL



GRADES 3 - 8



STANDARDS-ALIGNED







And selected state standards:



Texas Essential Knowledge and Skills



California
Department of
Education



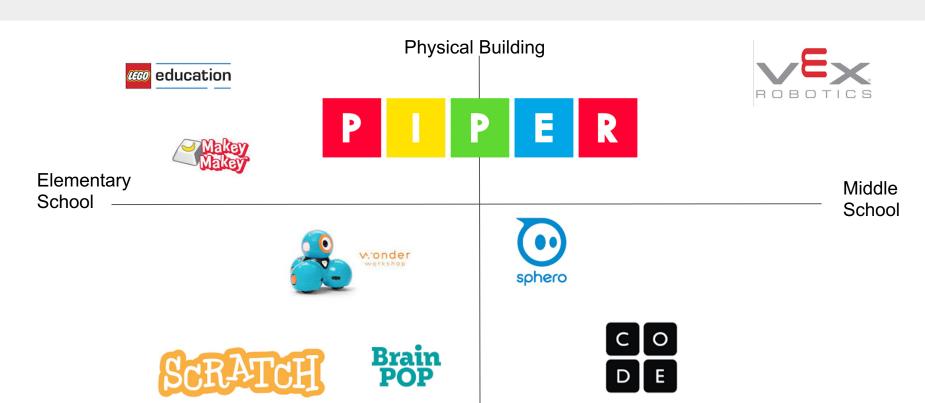
Michigan Integrated Technology Competencies for Students

And Piper will develop state standards alignment to make my life easier!



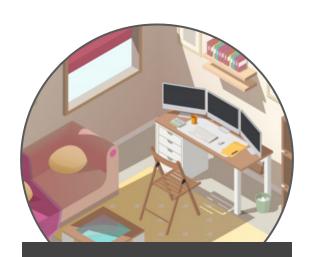


COMPETITIVE ANALYSIS



All Digital

WHERE DOES PIPER FIT IN?

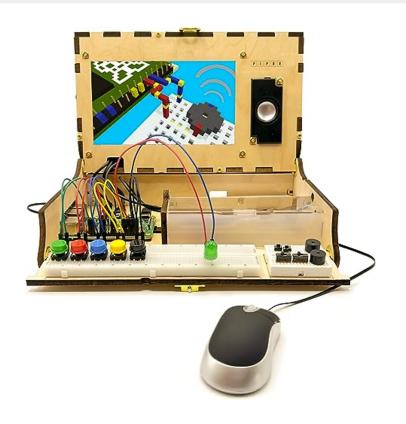


Expanded Learning





PIPER COMPUTER KIT









MISSION ZERO

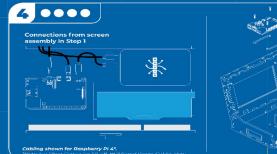
Build Your Piper Computer Kit W4

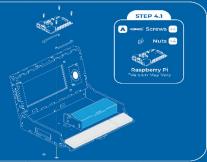
PREP

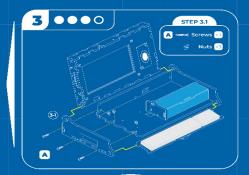
Use the USB-A to USB-C Cable and Charger to **charge the Battery** before building your Piper Computer Kit. This may take several hours.

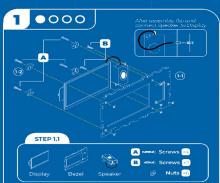


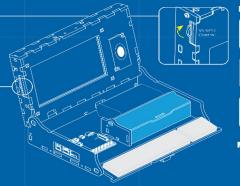




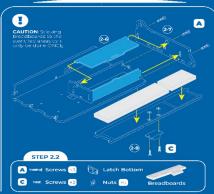




















CURRICULUM OVERVIEW

Build Your Computer

Discover

Electronics in StoryMode

Learn to Code in PiperCode

Explore w/ art and sensors

Invent w/
Learned Skills

PHASE



2







But what's the **timeline** to complete this program in the classroom?



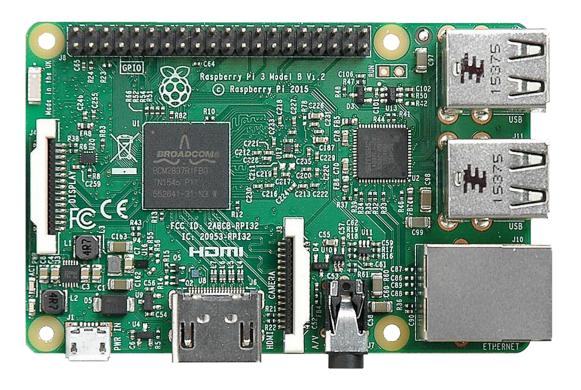
WEEK 1

WEEK 2

WEEK 3

WEEK 4/5

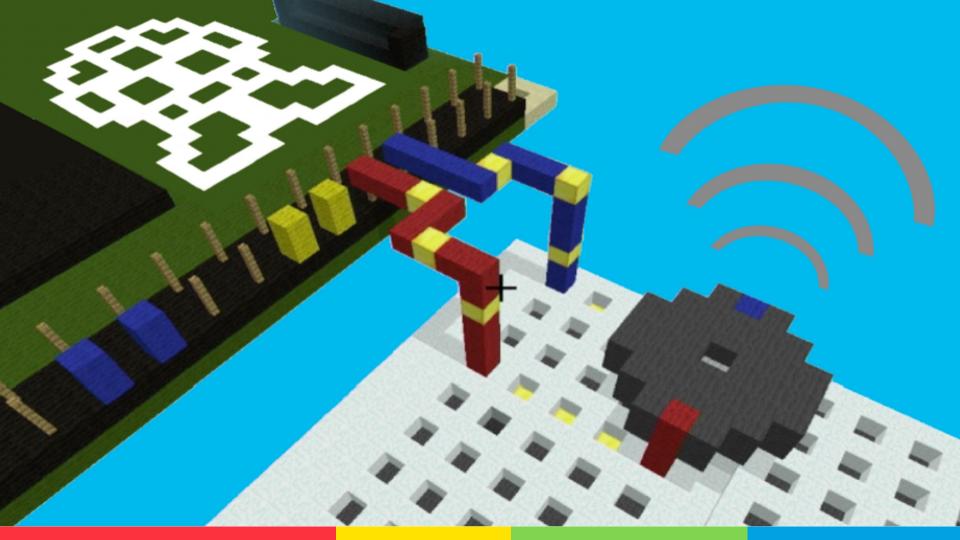
WEEK 6













Piper Computer Kits are designed to be re-used up to

20×

2 Students to 1
Piper Computer
Kit

20 x Disassemble and Rebuild Up to 40 children over the liftime of the Computer







COST PER STUDENT: \$9.98









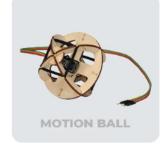














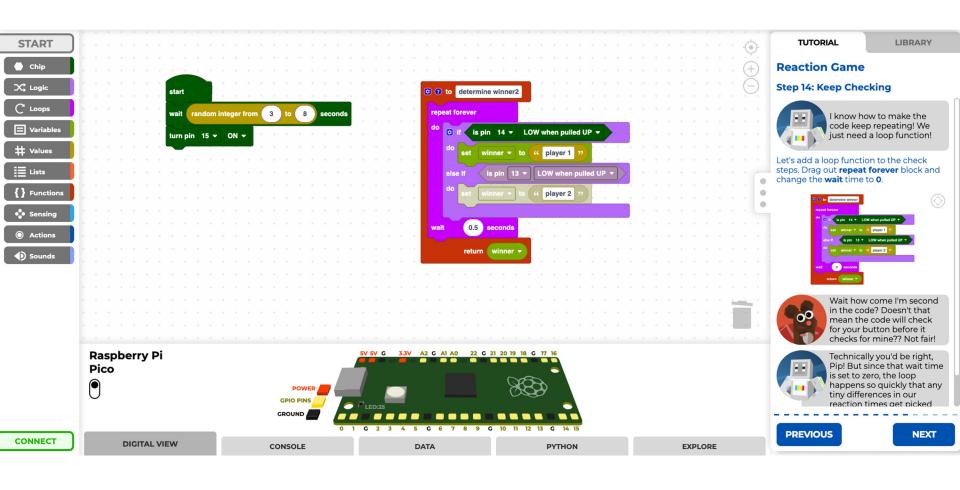














Piper Make Kits are designed to be reused up to

1-1 Student to Piper Make

10 x Students/ Piper Make 100 Students/ Bundle







COST PER STUDENT: <\$10

"Top one percentile of over 1,100 STEM items reviewed since 2014"











Kids Judge Bett

2024 WINNER



Play Piper's winning entry captivated students from Reedings Junior School, Sawbridgeworth, Hertfordshire, UK.

The award recognizes Piper's commitment to sustainability, utilizing wood and recyclable materials in its interactive computer kit.



The pitch

The **Piper Computer Kit** is our flagship product. It's a computer that kids build themselves. We provide blueprints with every product be each has a build component. It can be disassembled and built up to 20 times so with a 2-1 ratio you're looking at serving 40 children with one computer kit over its lifetime.

Once it is assembled, there is a game within Minecraft **for Raspberry Pi** whereby the kids must stop a giant cheese asteroid from crashing into earth. To do that they will have to complete a series of **physical computing** challenges to progress through the game and to ultimately save the world.

Piper Code is included in the Computer Kit which is a series of missions that incorporate coding for physical computing.

There are 32, standards aligned, lesson plans and over 60 hours worth of content on each computer kit.

The **Piper Make** product line is a series of individual project kits, all under \$100, that have career centric Missions/ lessons. They work seamlessly with Chromebooks but will work on any computer that runs Edge or Chrome browsers. All make products run via **make.playpiper.com** – again we're coding for physical Computing. Make Products are recommended as 1 to 1 and can be disassembled and reassembled up to 10 times.

Important Links:

- 1. Piper Booklet January 2024 | PDF to Flipbook (heyzine.com)
- 2. Piper Computer Kit Playbook (Teacher Guide)
- 3. Piper Make Playbook (Teacher Guide)
- 4. www.PlayPiper.com
- 5. Make.PlayPiper.com

Jon Prove

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Additional Information



Build, Learn, Invent With Piper

Introducing the Piper Make Starter Robotics Expedition Kits - a hands-on experience with building and coding to create the next thing at home.

Piper Make empowers your child with STEM* education opportunities, inspiring them to build, learn, and invent with technology.

SHREE BOSE

CEO, Piper Learning, Inc. (San Francisco, California)



Kids need a better, more engaging way to play and build with technology.

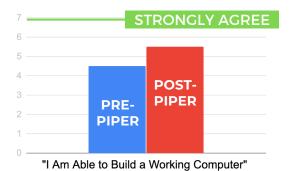
So, we created



PIPER BOOSTS FOR STUDENTS



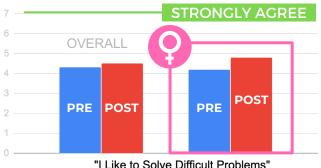
DIGITAL FLUENCY



Student's self-scoring on understanding of electronics, reading visuals to build, and technological troubleshooting.



GIRLS' PROBLEM SOLVING CONFIDENCE



irls who participated in the Piper Computer Kit self-reported a greater comfort with cognitive dissonance in approaching challenges in the classroom when problem-solving (1=Strongly Disagree, 7=Strongly Agree)



EXPLAINING CRITICAL THINKING



A 26.4% increase was reported for metacognition while solving a computer science problem:

(1-Strangly Disagra, 7-Strangly Agrae)

Kings Canyon Summer Learning

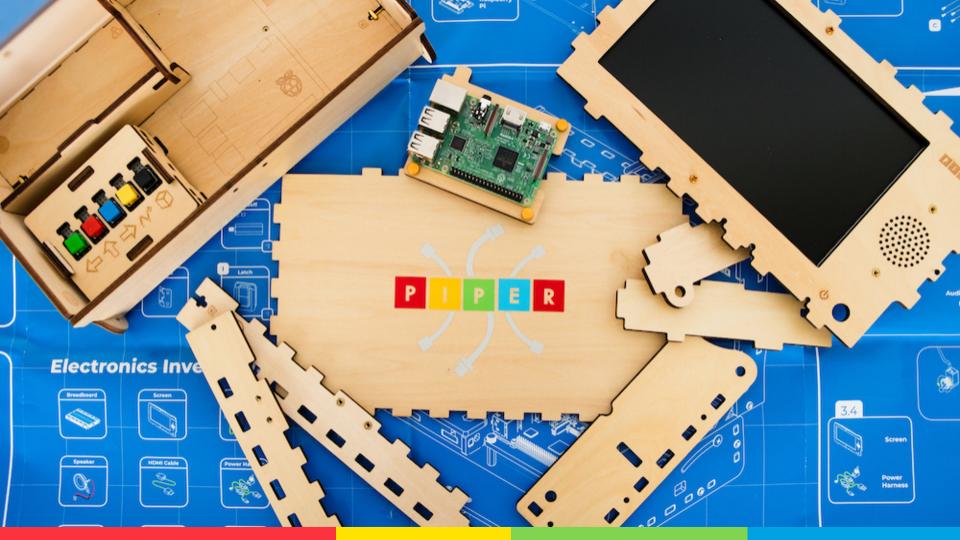
Goal was to improve STEAM learning outcomes for high-needs students—all while limiting the impact on teachers and staff.

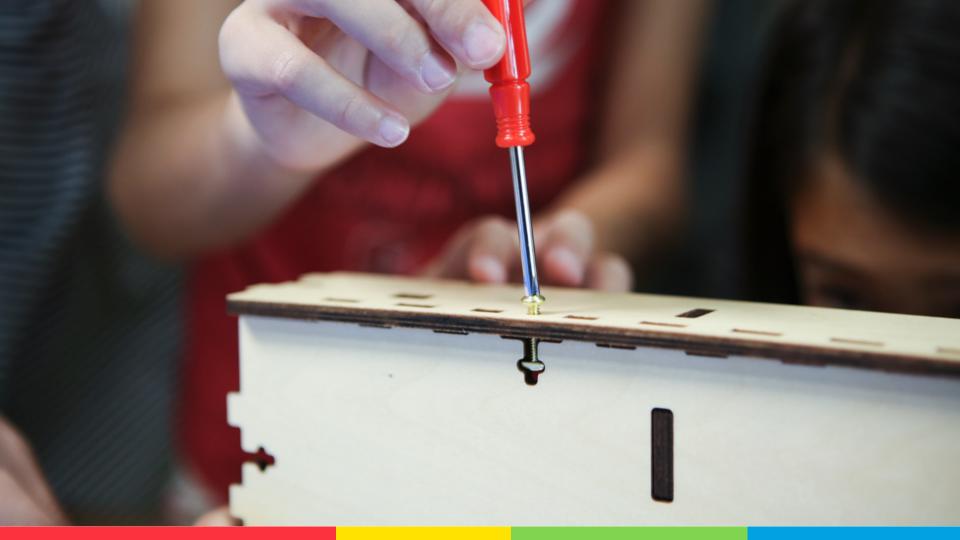
"I was able to just turn the kids loose."

- Felicia Loera "The kids loved it.
Absolutely loved it. They told their friends that they need to come to summer school."

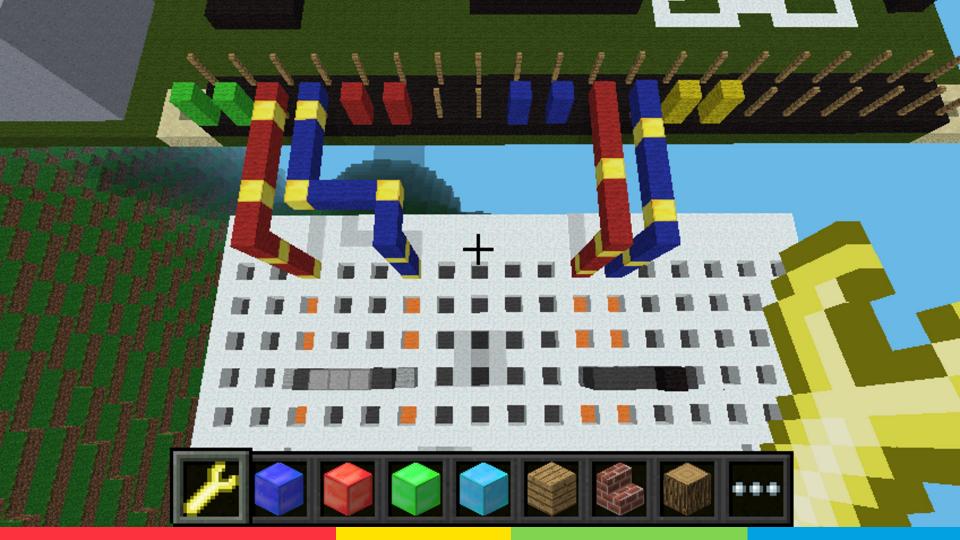
- Gwenn Southerland













TUTORIAL LIBRARY

Reaction Game

Step 2: Ready to Play?



Warm up your fingers my friends, because in this project, we'll be testing your lightning fast reflexes!



Let's build a game where Piperbot and I will see who has the fastest reaction time!



Click **NEXT** to get started.

PREVIOUS

NEXT



X Logic

C Loops

Variables

Values

Lists

{ } Functions

Sensing

Actions

Sounds



DIGITAL VIEW

CONSOLE

DATA

PYTHON

EXPLORE

