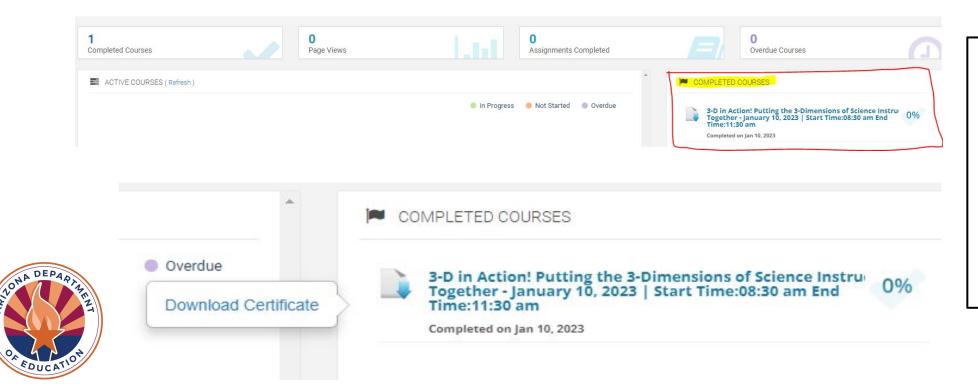
WELCOME!

Please review this information while we wait for all to join!

Attendance, Resources & PD Clock Hours

- You must stay on the whole time- .5 hours- to receive credit
- Please follow the directions below to obtain your PD certificate
 - In the new <u>ADE Professional Learning and Development (APLD) system</u> when you login to your ADEConnect account you will see a list of active courses and completed courses, as demonstrated in this screenshot:



Click on the completed course for which you want to obtain your certificate. When you click on the course link, a small pop-up will appear that says "Download Certificate." Click that link and it will download your certificate as a PDF, see screenshot to the left.



Celebrate Computer Science Education Week with ADE!

December 7, 2023

What is Computer Science Education Week?

CSEd week is an annual call to action to inspire K-12 students to learn computer science, advocate for equity and celebrate the contributions of students, teachers, and partners to the field.

#CSEverywhere @azedschools





Welcome!



SARAH SLEASMAN
K-12 ACADEMIC STANDARDS
DIRECTOR OF SCIENCE & STEM



ALECIA HENDERSON
K-12 ACADEMIC STANDARDS
COMPUTER SCIENCE & EDTECH
SPECIALIST



CHRISTEL BRUNO
K-12 ACADEMIC STANDARDS
STEM SPECIALIST



Introducing today's special guest:



Tara Menghini Educational Technology Teacher, K-6 Knox Gifted Academy



K-6 Technology Teacher

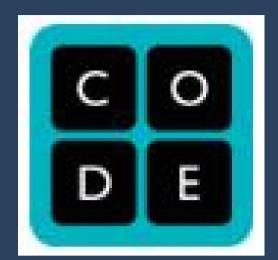


CS for ALL.

menghini.tara@cusd80.com





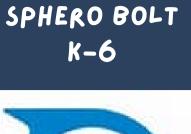


CODE.ORG K-6



SWIFT PLAYGROUNDS 2-6

RESOURCES:



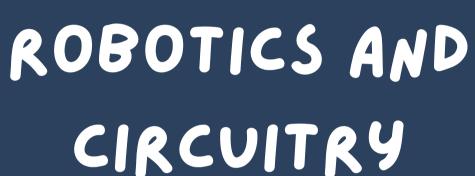




KODABLE



MACHINE LEARNING













MEOWBITS/
MAKECODE ARCADE
3-6

ONLINE/APP CODING

-Emerging Al -Twice Exceptional Learners -COLLABORATION

DESIGN THINKING



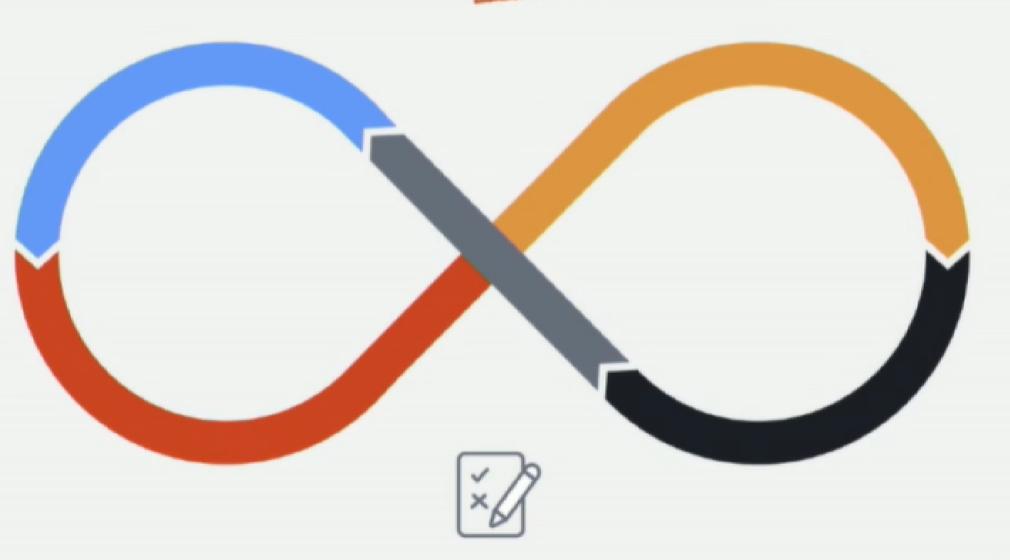
Empathize

Understanding people

Define

Figuring out

the problem



Test

Refining the product



Ideate

Generating your ideas



Prototype

Creation and experimentation

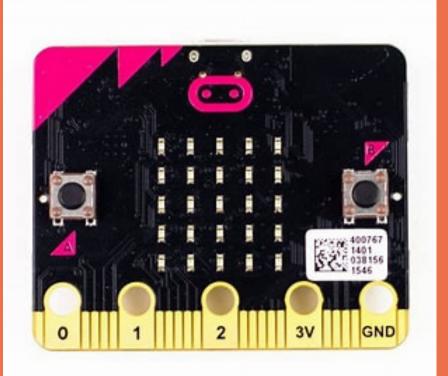
Credit MAQE



TECHNOLOGY:

Physical Computing and circuits

Little Bit Kits



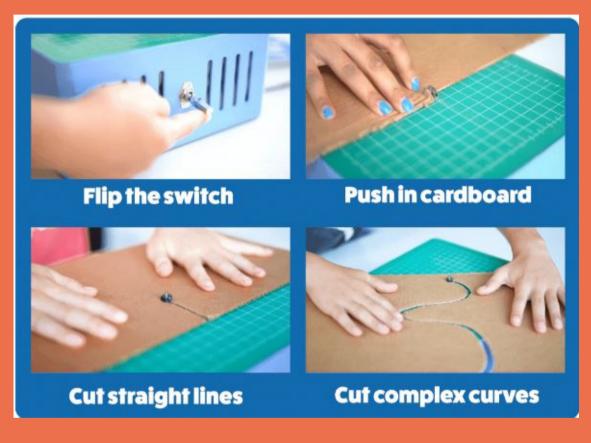
Micro:Bits



Misc. motors, wires, and LOTS of batteries!

Circuit Playgrounds

ELEMENTS OF THE BUILD



Cardboard

Cutting Tools

"InvenTable"

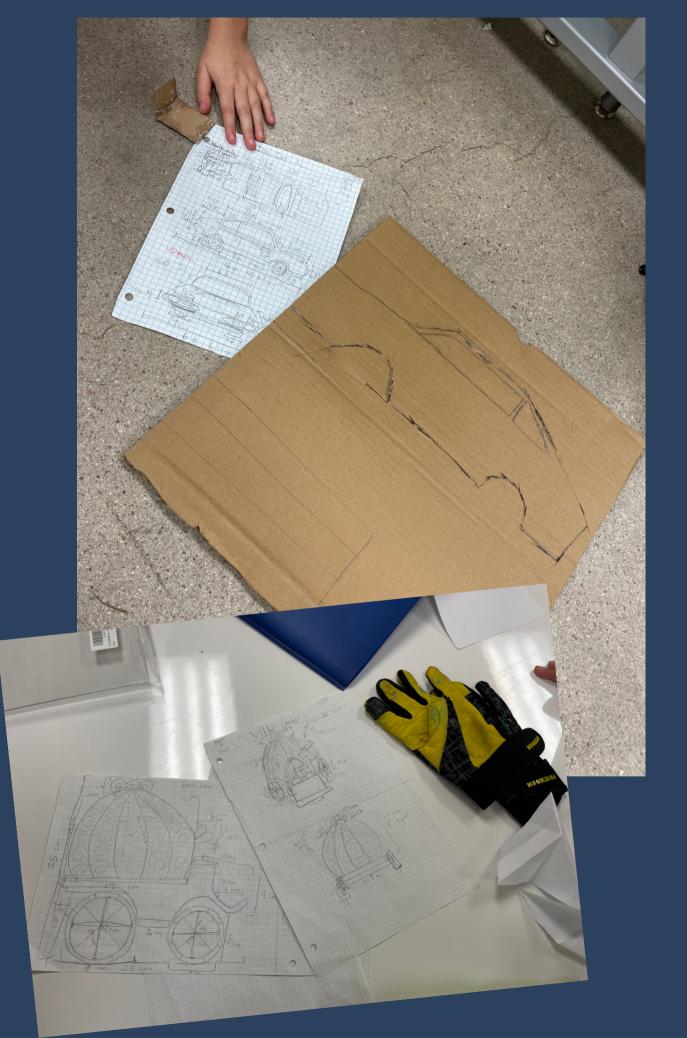


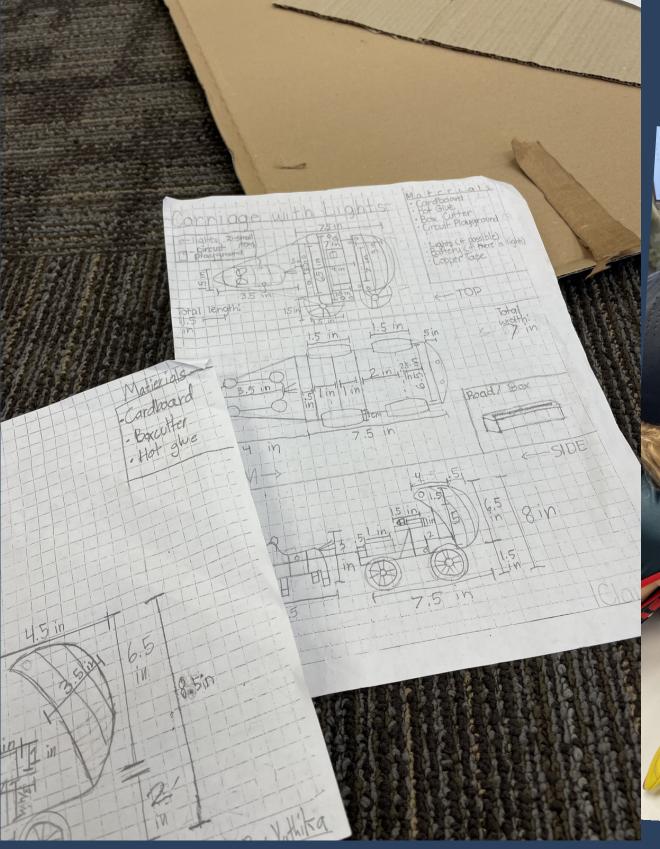
Glue Gun training

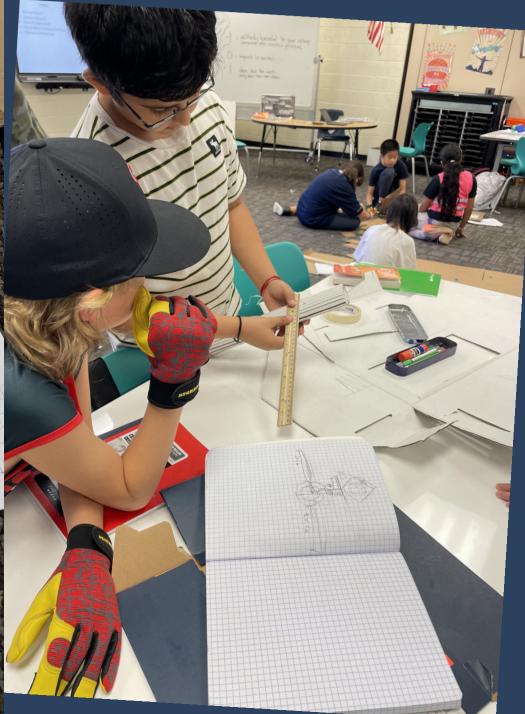


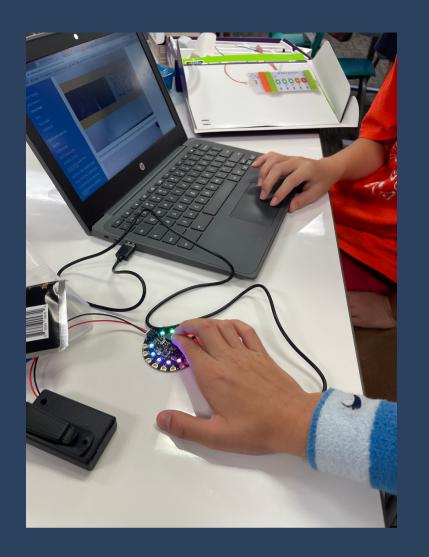


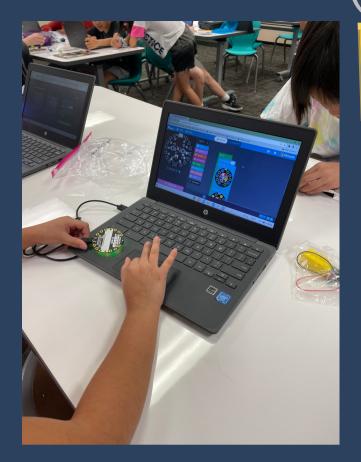
EMPATHIZE & DEFINE











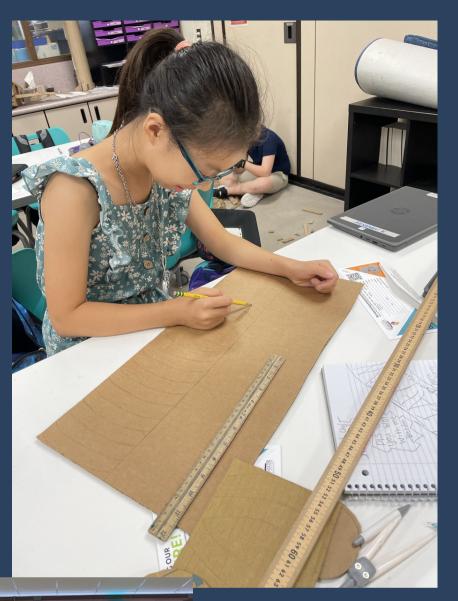
makecode.adafruit.com

makecode.microbit.org

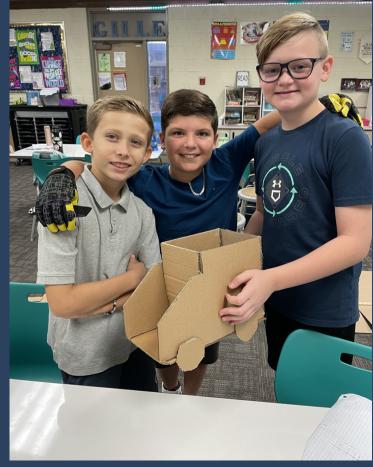
https://sphero.com/pages /littlebits IDEATE













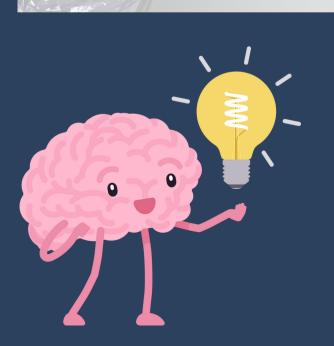
PROTOTYPE











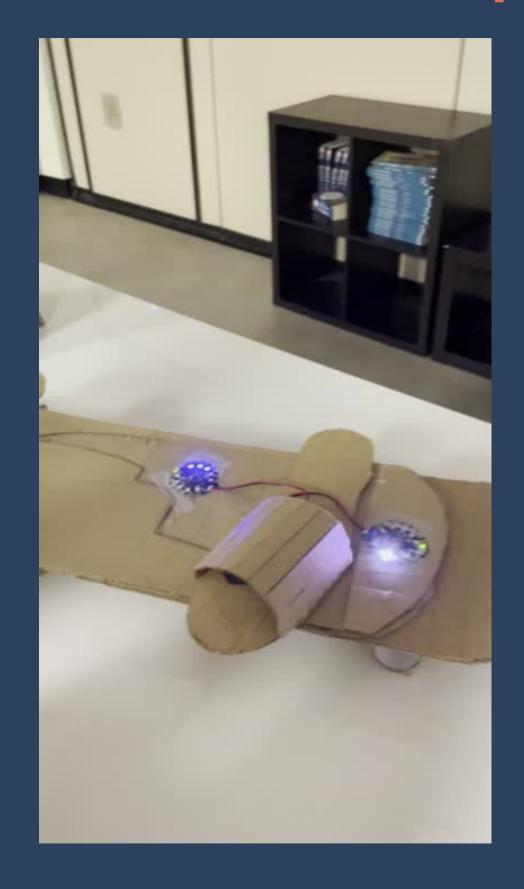




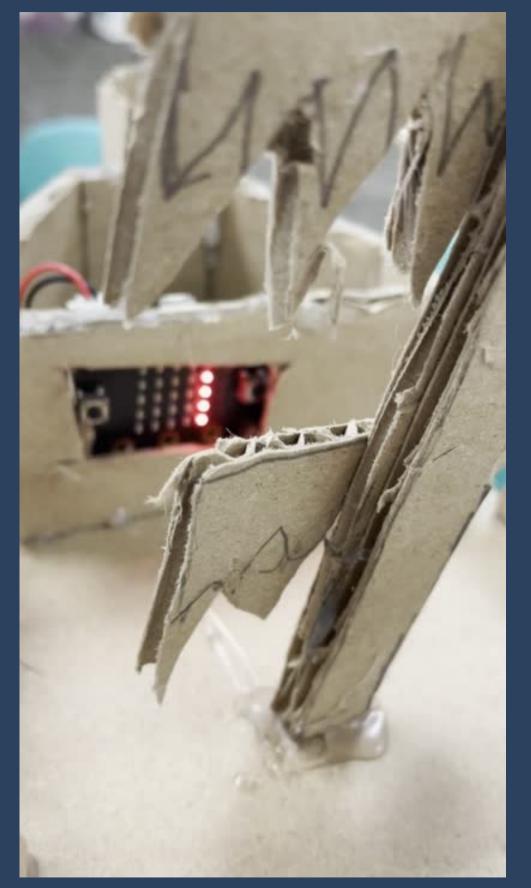
TEST



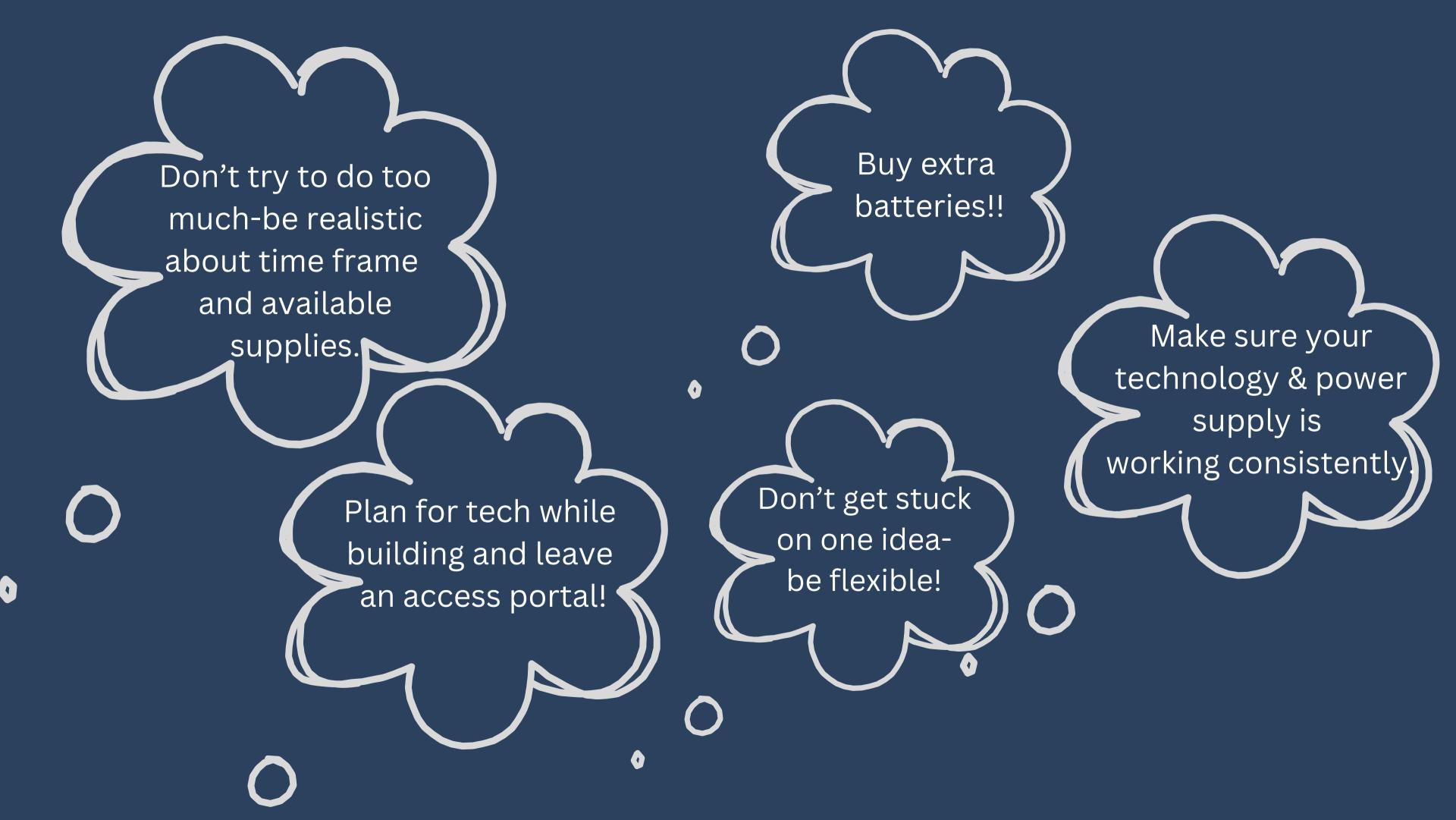
Tools VS Mindset & Outcome







✓ Empowered Learner ✓ Innovative Designer ✓ Creative Thinker



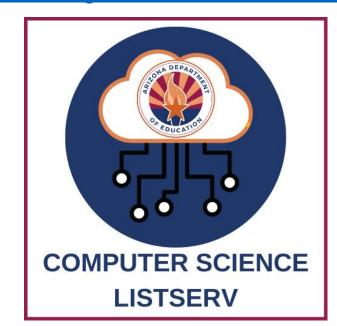


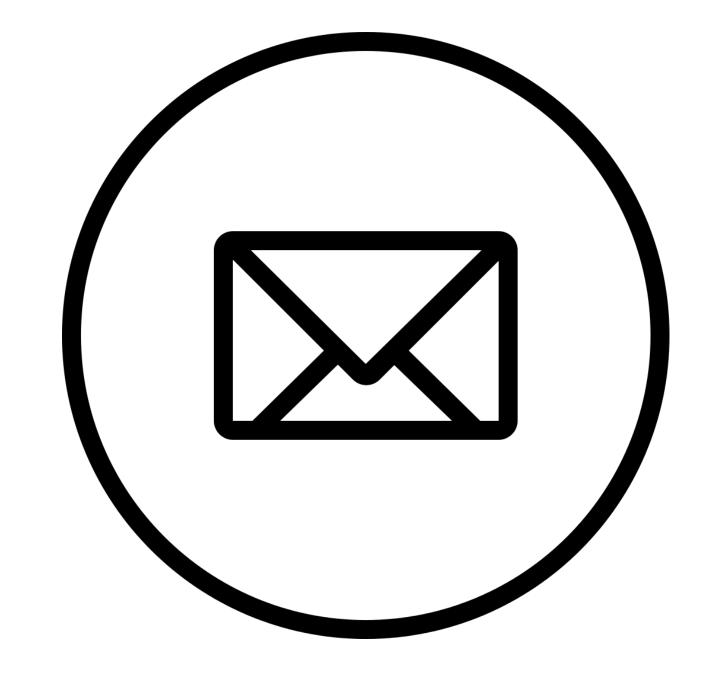
Sign up for ADE Listserv!

Educational Technology



Computer Science













Please reach out! We are here to help!

Alecia Henderson

Computer Science and Educational Technology Specialist Alecia.Henderson@azed.gov

Sarah Sleasman

Director of Science and STEM Sarah.Sleasman@azed.gov

Computer Science Standards Webpage