



# UVA Innovation Hub

at Charlottesville Middle School  
March 7, 2024

# Charlottesville City Schools

- Increase middle school student engagement in school and in STEM.
- Provide PD that helps teachers connect different content areas in a way that is relevant to and builds on the assets of their students.
- Increase middle school student performance on state assessments.

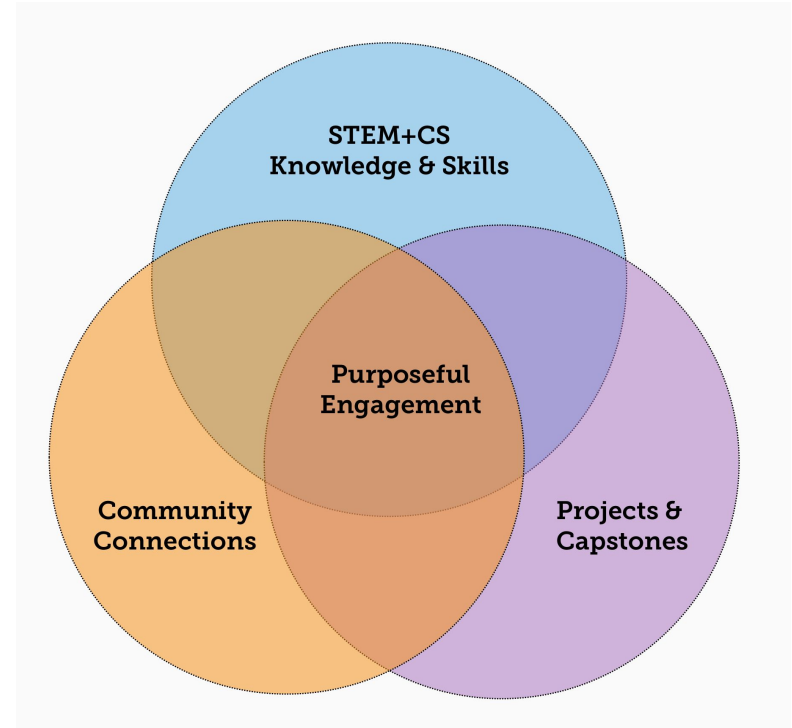


# What is our lab school vision?



The **mission** of the UVA Innovation Hub is to **engage all students** in **personally meaningful, computationally-rich and interdisciplinary** learning experiences.

The **vision** of the UVA Innovation Hub is to provide educational opportunities that **inspire curiosity, fuel innovation, and empower all students** to solve problems and pursue lifelong learning.



# Charlottesville Middle School

- Innovation Academy Fellowship
- Community partners
- Pre-service teacher placement
- Research
- Substitute teachers
- After-school pathways for students

**UVA  
Innovation  
Hub**

**Science**

**Social  
Studies**

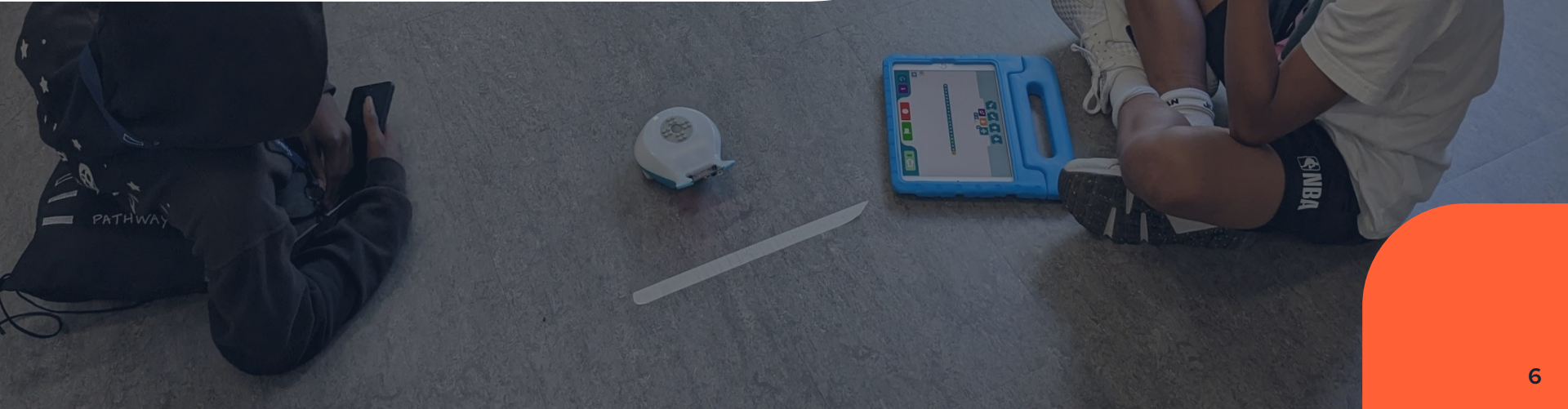
**Science**

**Science**

**Math**

**English**

# How will our lab school operate?



# The UVA Innovation Hub Model

6th - Exploratory	7th - Career Exploration	8th - Capstone
300 students scheduled in the UVA Innovation Hub to build skills and project experience (starting Year 3).	300 students scheduled in the UVA Innovation Hub to work on 2 integrated projects in science (starting Year 1).	300 students scheduled in the UVA Innovation Hub to work on science Capstone project (starting Year 2).

UVA	CCS
Curriculum support & delivery Professional development Resources Research and evaluation Mentoring Community connections Collaboration and communication	Student engagement Standard integration Family engagement Feedback Logistics and coordination Teacher engagement and support Facilities Administration



# The UVA Innovation Academy Fellowship Experience

Develop a  
community  
of practice





# The UVA Innovation Hub Experience

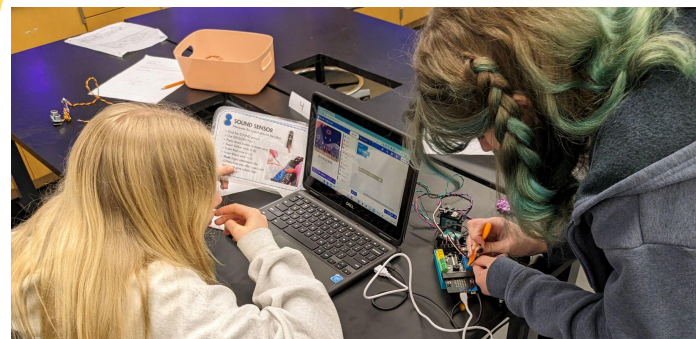


Summer Starr Hill  
CS Pathway

Engage all  
students

"I am most proud of being able to work with my group and laughing and enjoying it."

"I enjoyed the different hands on activities that were given every day which was a great way to help a beginner like me get an overall idea of this career."



BioBots: Animal Adaptations Project

# The UVA Innovation Hub Experience



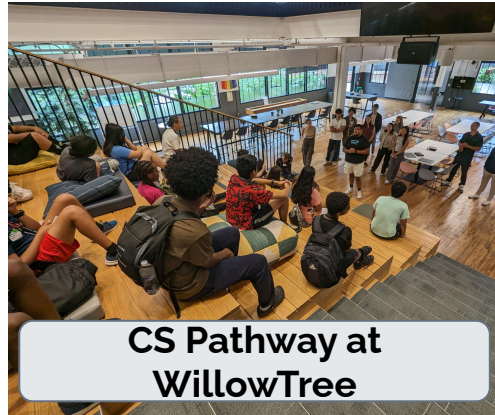
**Sarah from Birdbrain Technologies sharing robot building tips**



**Charlottesville Community Bikes problem statements**



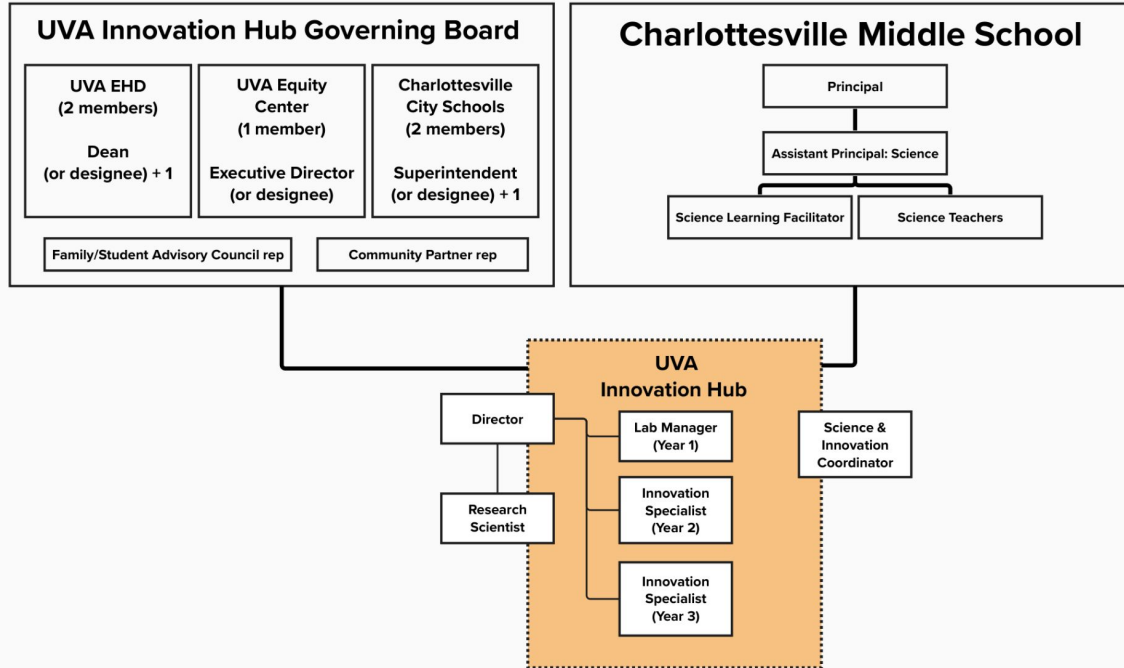
**Courtney from Linden Labs sharing game design tips**



**CS Pathway at WillowTree**

Make meaningful community connections

# Governing Board



# Budget Overview

Description	Year 1	Year 2	Year 3	Year 4	Year 5
Personnel Budget	\$309,196	\$396,564	\$487,428	\$506,924	\$1,286,486
Employee Benefits	\$114,278	\$147,424	\$181,897	\$189,174	\$196,740
Non-personnel Budget	\$287,480	\$240,602	\$273,228	\$273,358	\$273,492
Capital expenditures	\$700,000	\$800,000			
Indirect Costs	\$73,595	\$78,459	\$94,255	\$96,946	\$99,743
<b>ANNUAL TOTAL</b>	<b>\$1,484,549</b>	<b>\$1,663,049</b>	<b>\$1,036,808</b>	<b>\$1,036,808</b>	<b>\$1,097,176</b>
<b>Revenue Projections</b>					
Start-Up Funding	-\$702,500	-\$800,000	\$0	\$0	\$0
Per Pupil Funding	-\$782,049	-\$863,049	-\$1,036,808	-\$1,066,402	-\$1,097,176
Total Revenue	-\$1,484,549	-\$1,663,049	-\$1,036,808	-\$1,066,402	-\$1,097,176
<i>Per Pupil Cost Estimates</i>					
Number of Students Served	300	600	900	900	900
Est. Per Pupil Cost	\$2,607	\$1,438	\$1,152	\$1,185	\$1,219



# Capital Improvements

Item	Quantity	Cost
Sound Board (year 1)	\$50,000 4 science classrooms - Enhance acoustics for clearer lectures.	\$200,000
Tech Updates (year 1)	\$20,000 4 science classrooms - Modern tools to foster interactive and innovative learning.	\$120,000
Lab Furniture (year 2)	\$200,000 4 science classrooms - Ergonomic designs to complement the innovative classroom setting.	\$800,000
White Boards (year 1)	\$5,000 4 science classroom - Upgrade to more accessible and user-friendly models.	\$20,000
Safety hoods (year 1)	\$5,000 2 classroom - Safety hoods for experiments.	\$10,000
Classroom Footprint (year 1)	Renovations and Updates - 4 science classrooms	\$250,000
Design Contractor (year 1)	1 Contractor - Adjust the current layout to better integrate innovation into the science/engineering classroom, ensuring a fit that promotes safety and creativity.	\$100,000
Total		\$1,500,000

# Sustainability

- Engage community stakeholders
- Partner with UVA EHD Foundation
- Secure research funding



# Questions