

Foundation

Fundamentals & Findings

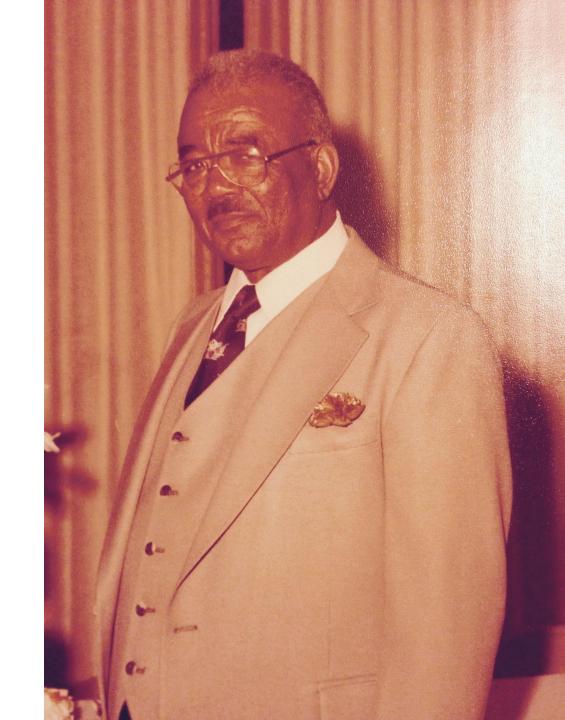




Future Foundations

My Inspiration

Levi Barnes Sr. "Grandaddy"





The importance of academics and hard work

My Inspiration

Levi Barnes Sr. "Grandaddy"

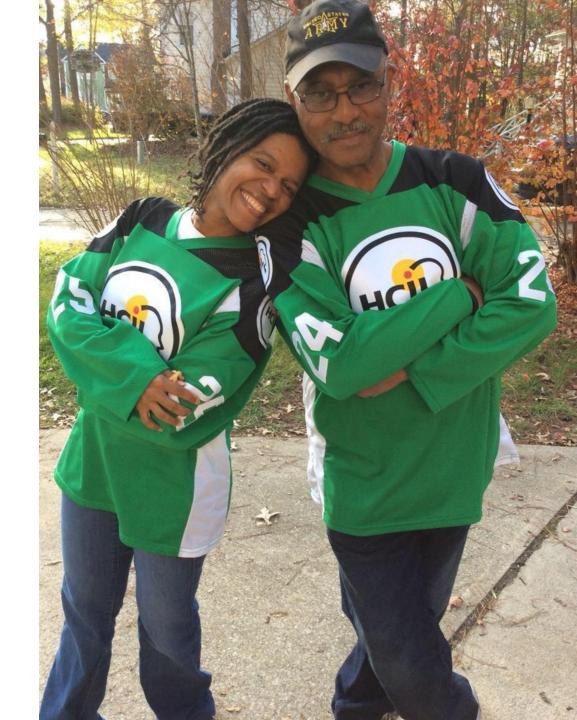


My Coach

My biggest supporter, encourager, & cheerleader

My Coach

Ted Clegg
"SuperDad"





My Support

Aunts and Uncles





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My GOD

Ephesians 2:10

Foundation

Fundamentals & Findings





Future Foundations

Seeing the **World** through Scientific **Lenses**



Finding **practical** applications

Using Science to Achieve **goals**

Scientizing daily life activities

Foundation

Fundamentals & Findings





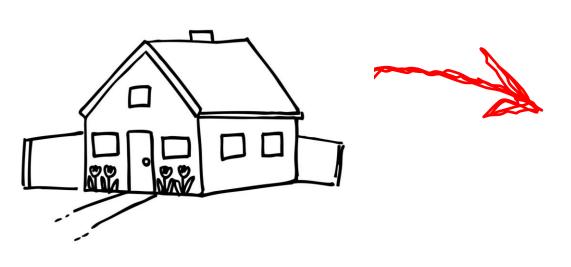
Future Foundations

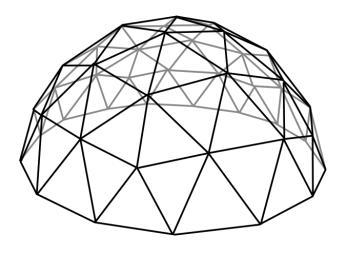


Home * School * After-school



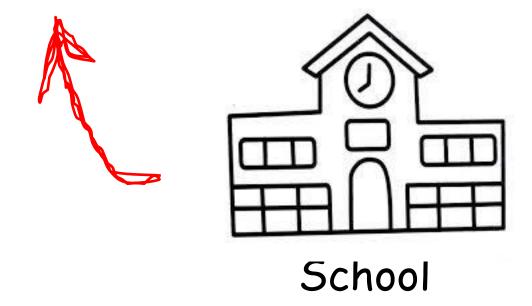
Daniel Pauw * Kelly Mills * Judith Uchidiuno * Beth Bonsignore * Austin Beck * Caroline Pitt

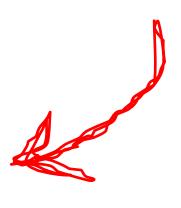




Home

After school







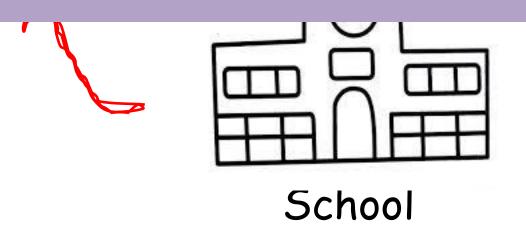
Home

Information

Pratowes

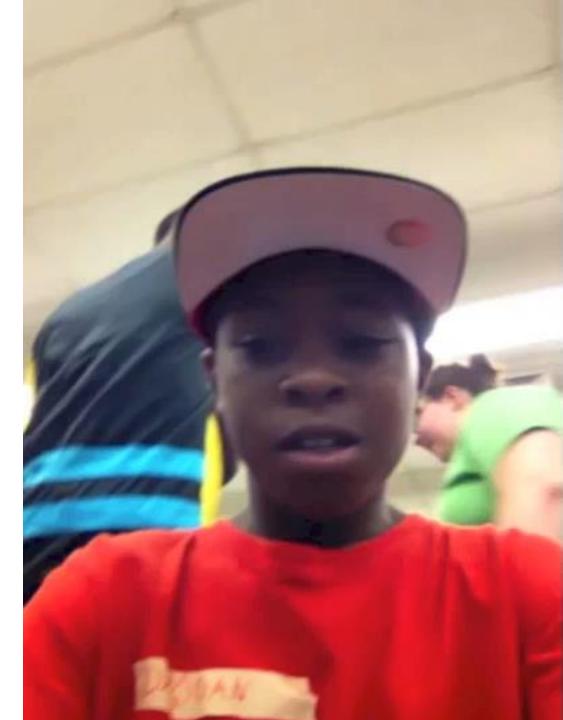
After school

is not enough





Social media can make resources visible





How do we design new technologies to connect entire neighborhoods to science?





Tangible, community displays

Mobile social media



Mobile App













Choice Days: designing new experiments





Small Group P

Shopping!!!

Choice Day

At home







Science Everywher e App

Documenting the experience at home

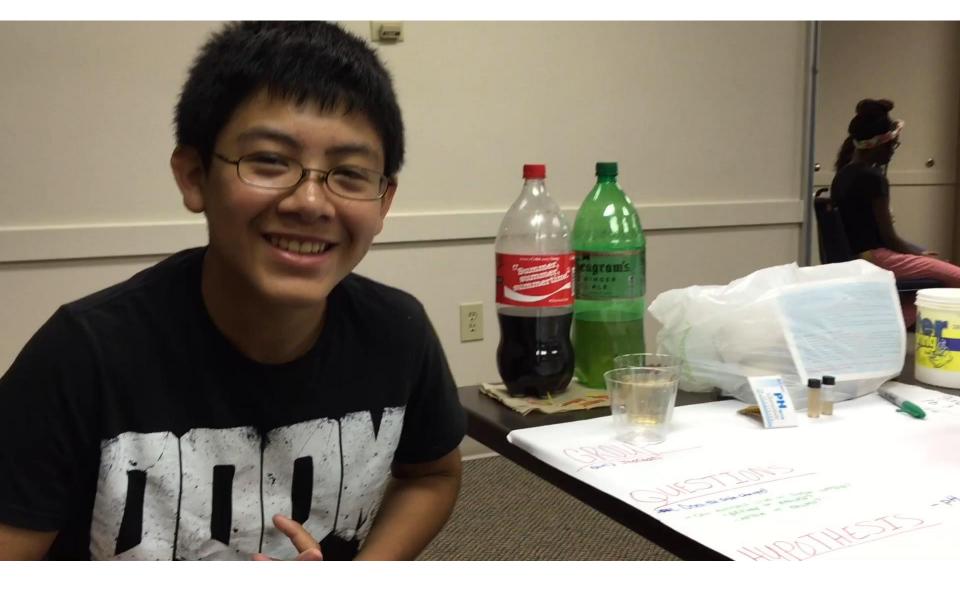




Science Everywher e App

Documenting the results





Choice Day Investigations





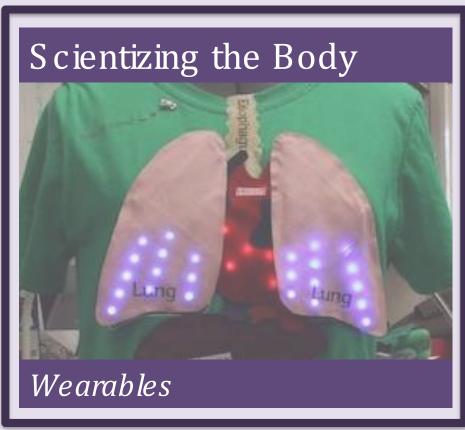
Tangible, community displays

Mobile social media

Foundation

Fundamentals & Findings





Future Foundations



What if our clothes revealed how our body's functioned?

How could this change the way children learn about and understand their bodies?

Could a t-shirt be a platform for experimentation and inquiry?

Live Physiological Sensing & Visualization LPSV





Amy Green



Leyla Norooz



BodyVis Team

Collaborative Inquiry

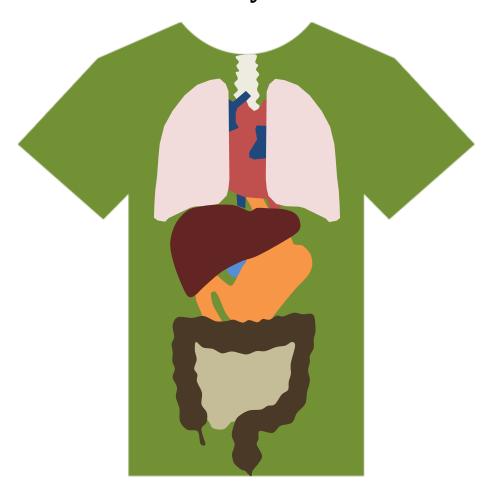


Collective Inquiry

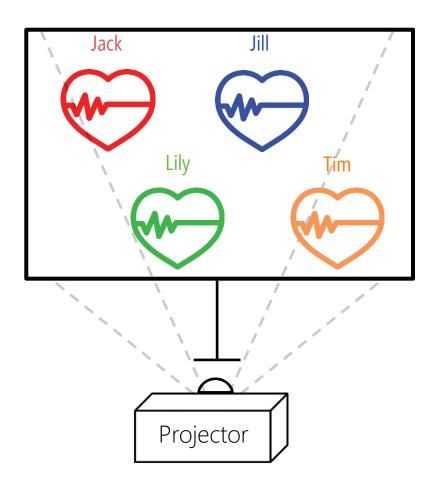


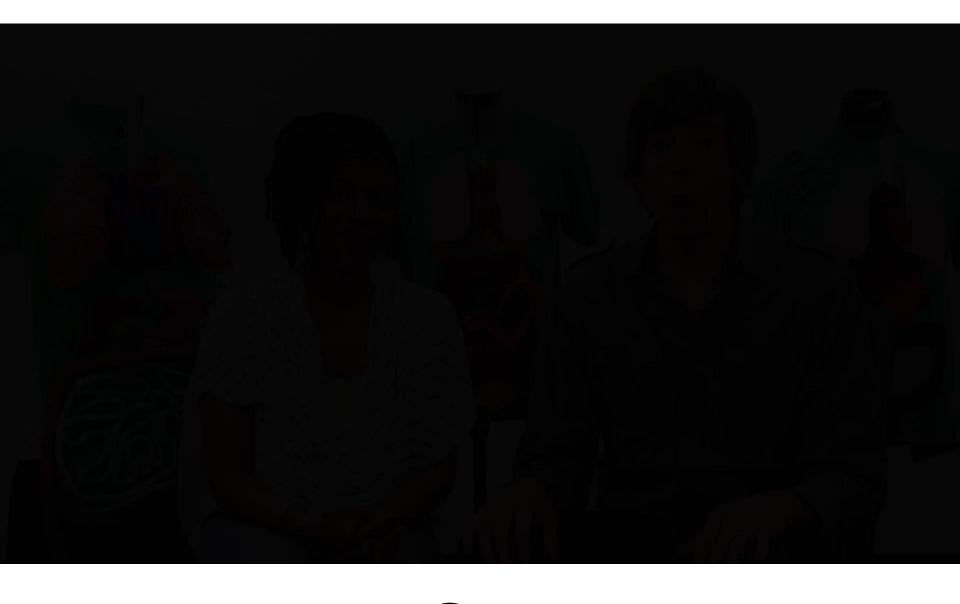
LPSV Tools

BodyVis



SharedVis





BodyVis & SharedPhys

Semi-Structured Activities











Small groups or pairs brainstorm activities

Make predictions

Test with BodyVis or SharedVis

Discuss results



The Macarena

"I kind of felt embarrassed because all these people were staring at me. So it kind of went up."









Watching the nba summer league secound game brought my heart rate down after running because less blood must be pumped when I am just sitting down and not stressing my muscles and lungs by breathing hard and also the fact that the game was just summer league and not nba didn't stress me for my team to win.





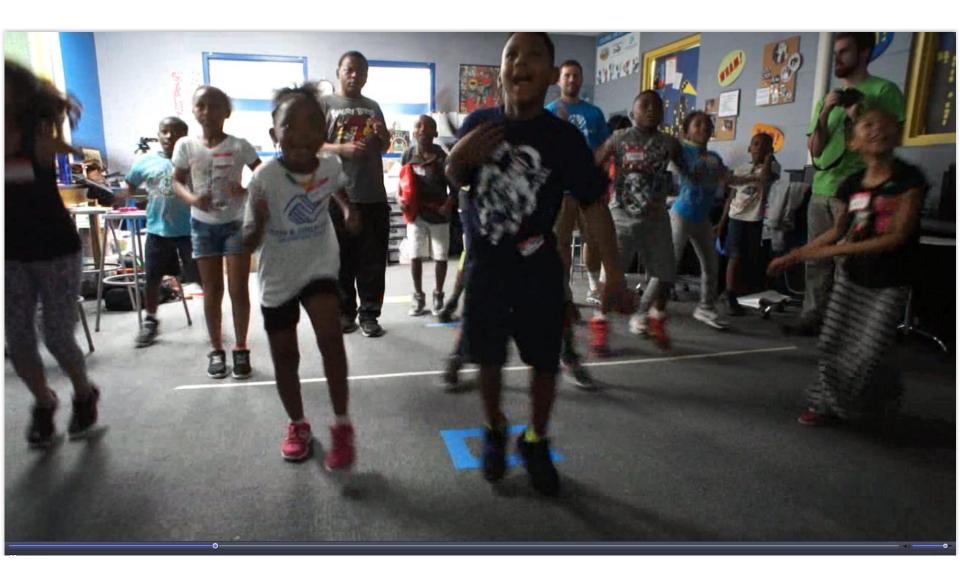
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Scientizing Later



Immediate Action

Wearers and Non-wearers



Games & Engagorn petitions



Collaboration



Physical Activity

Wearer & Non-wearer Collaboration

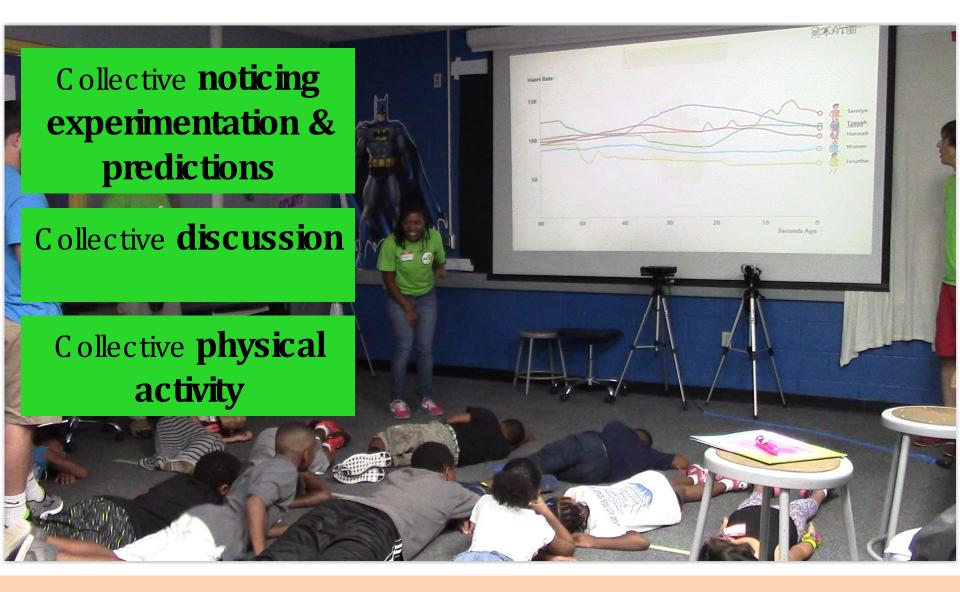
Connecting
everyday physical
activity to organ
function

Connecting **social & emotional**factors

Real-time visualizations



Personal Relevance



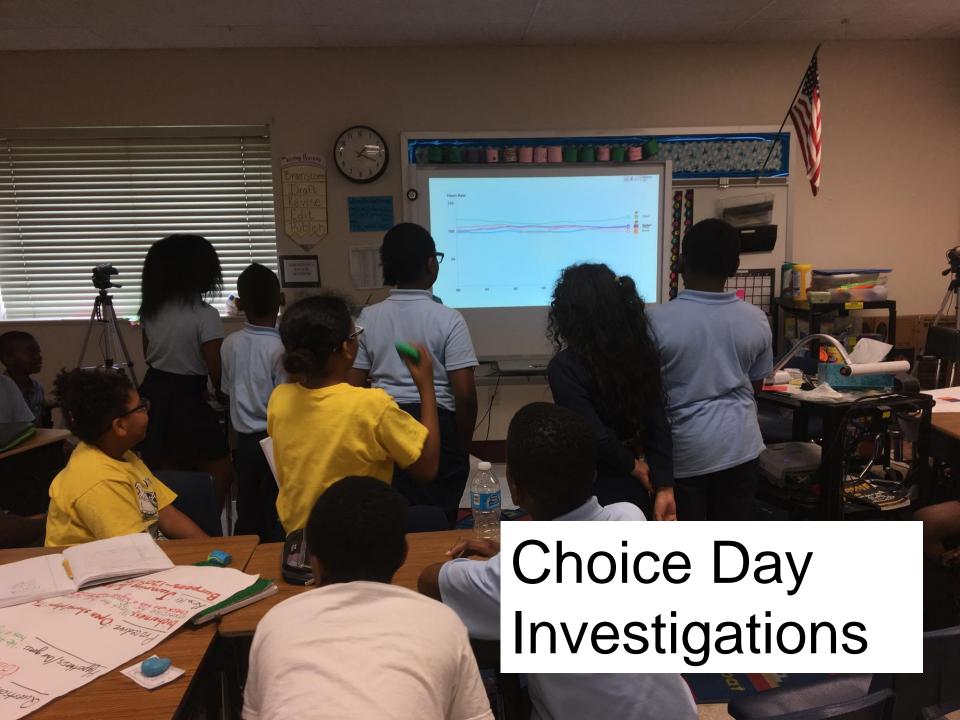
Collaboration

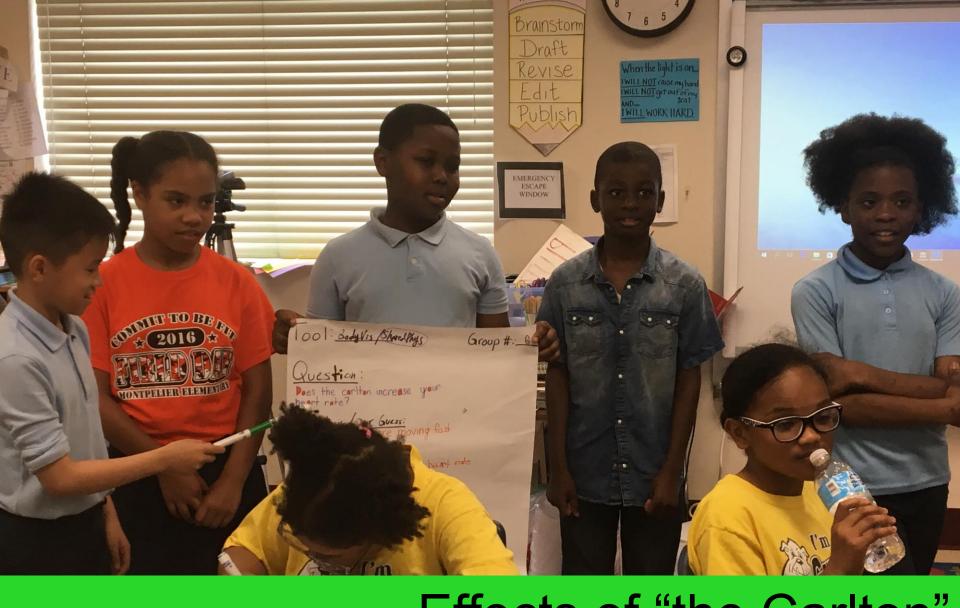


Multiple Session Deployment

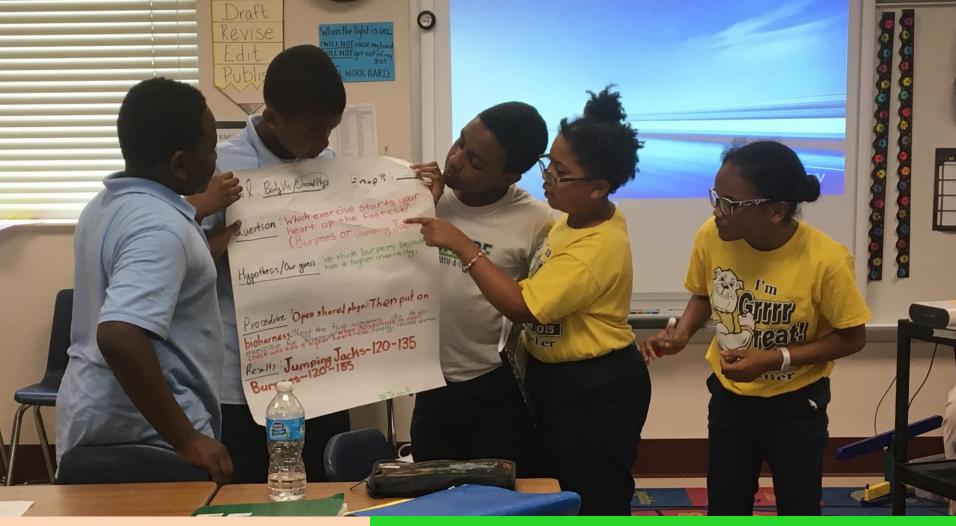
Integrated use of tools

Current Work





Effects of "the Carlton"



Burpees vs. jumping jacks

Testable questions

Which excercises "start your heart up the fastest?"

Take Away

Children need opportunities to connect and share everyday learning experiences with science





Take Away

Mentors have an important role to play

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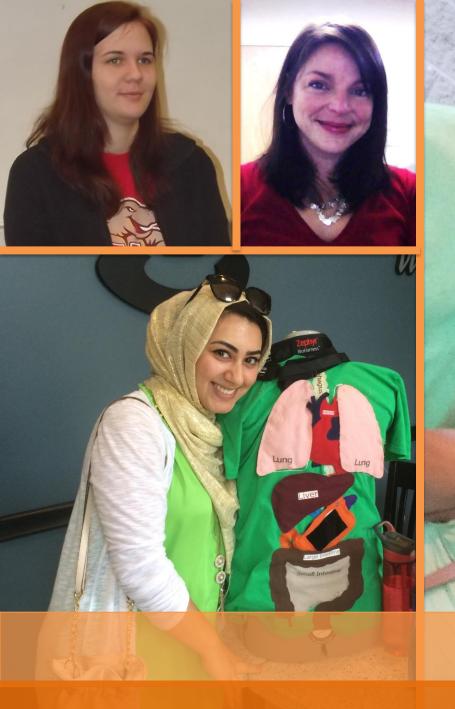


Future Foundations

We Need You!!!









BodyVis Team



My Foundation Team

Questions 7





Maryland Seattle



Designing with the Community





Parents

Mentors

Mentors and parents bring different contextual knowledge that influences our recognition of learning

