

Introducing...



Jeff Snell, Ed.D. Superintendent, Camas School District



Aaron Smith
Principal,
Discovery High School &
Odyssey Middle School,
Camas School District



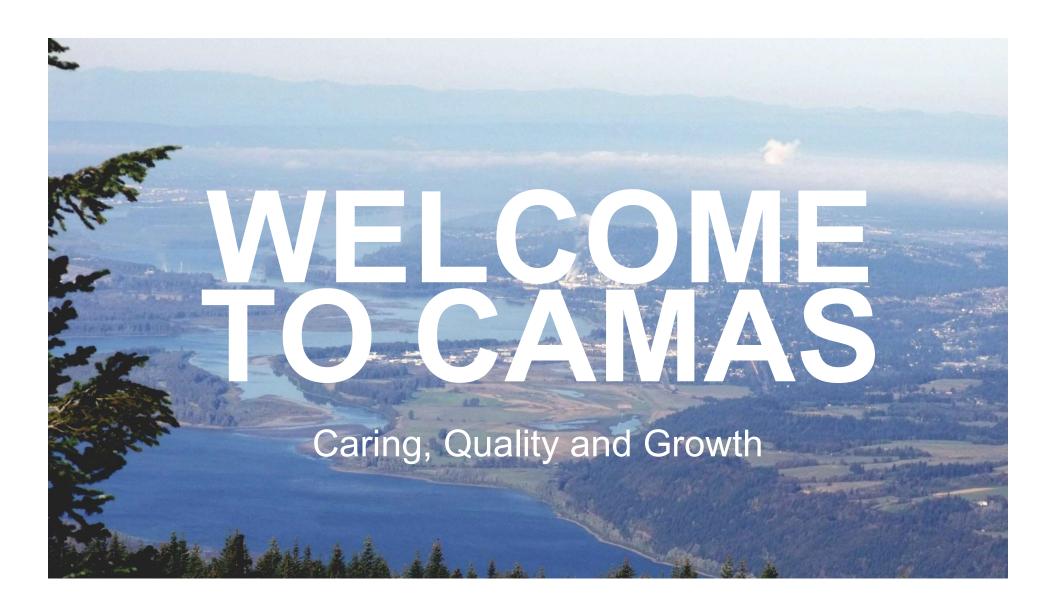
Rain Toney Student, Discovery High School



Karen Montovino, AIA, ALEP Principal Architect & Educational Planner, DLR Group



Tim Ganey, AIA, ALEP, LEED AP Principal Architect & Sr. Designer, DLR Group

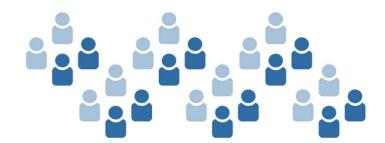


About the District

The mission of the Camas School District is to provide students with the ability to communicate effectively, use technology, reason, be self-confident, possess mental and physical health and work effectively with others. In broader terms, our mission is to create a learning community where students, staff and citizens are involved jointly in the advancement of knowledge and personal growth.



- 7,200+ students
- 1,000+ employees
- 6 elementary schools
- 3 middle schools
- 3 high schools



High School Reflection

Why Project-Based Learning?

• 40 percent of people in the U.S. work as contract employees, moving from one project to another. By 2025, this is expected to grow to 60 percent.

Almost all work, even in traditional companies, is organized by projects.

The world has changed a lot in last 100 years, one would think education has

also evolved.



Have they?







How about the workplace?







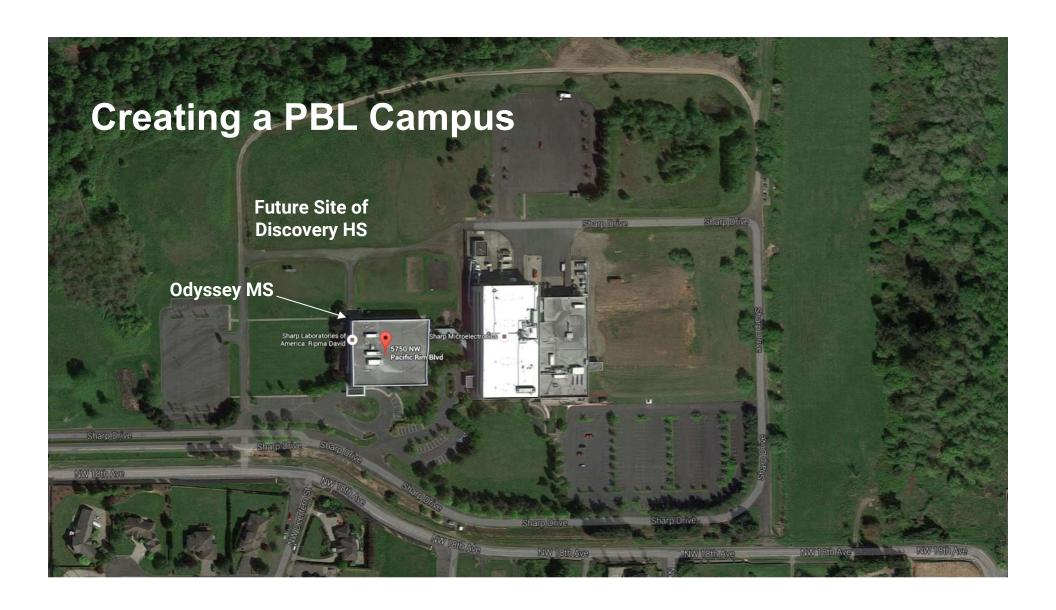


At Discovery High School, we engage with challenging, real-world problems. We interact with content through relevant and meaningful projects while developing collaboration, communication, creativity, and critical thinking skills that launch students into dynamic futures.

We learn for life!

Timeline





Changing the Educational Approach

from Workplace to Middle School

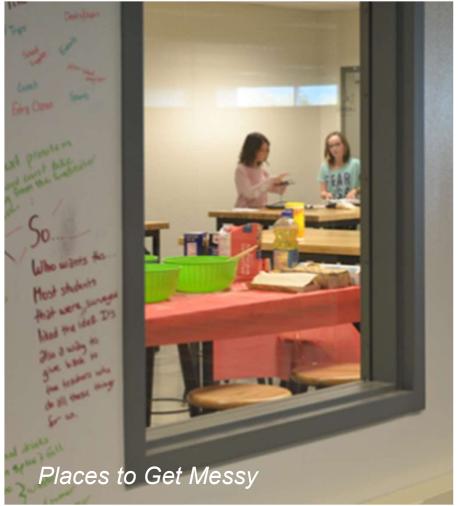


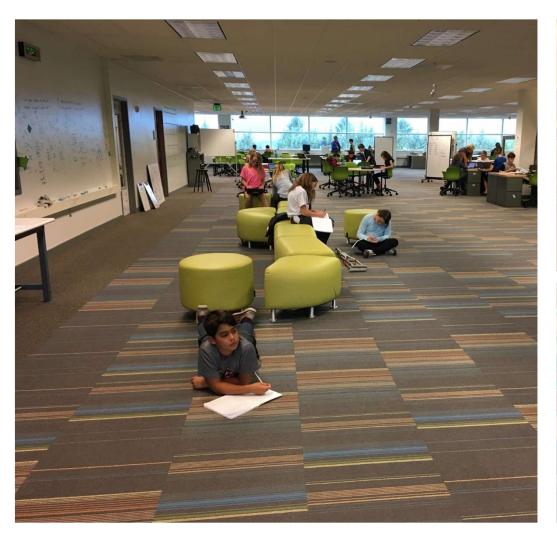










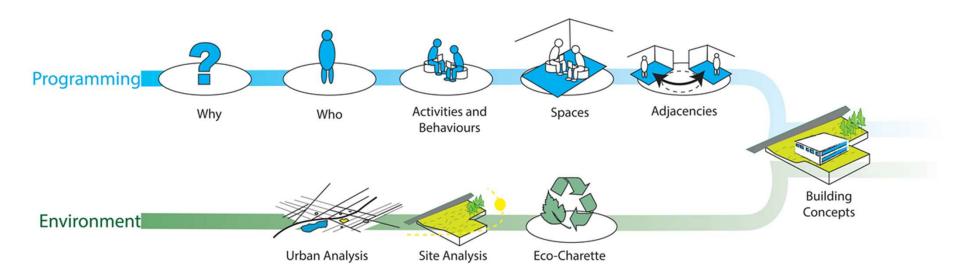








Process



Tours





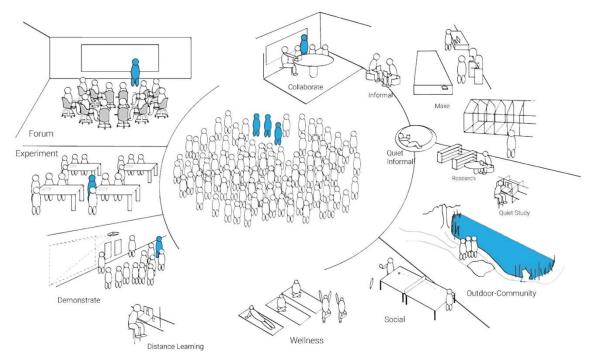


Guiding Principles

- Personalized learning that's engaging, active, and inspiring
- Students and teachers collaboratively design learning
- Flexible and adaptable
- Contribution to community

Five Areas of Opportunity

- Research
- Food
- Fitness
- Production
- Presentation



Deeper Dive Project Wall







Result: A Learning Continuum



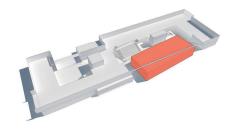
PEDAGOGY DRIVES DESIGN

SPACES SUPPORT STUDENT BEHAVIOR

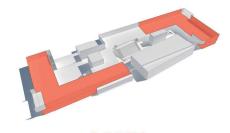




HUB Center of Culture and Community Flexible Assembly Space for Entire School



FLEX EXHIBITIONFlexible Presentation and fitness



R+D PODS
Flexible Core Learning Spaces
Four suites (two stacked at each end)
150 students per suite



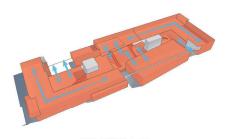




Two Research Commons for 300 Students Connected to each R+D Pod Direct Access to the Outdoors.



FAB LABCentral Fabrication Space for all 600 students

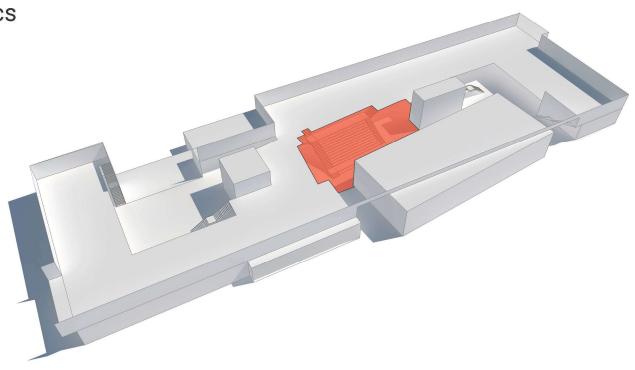


FLEXIBILITY
Variety of Spaces
Flexibility of Use
Readily Adaptable

HUB

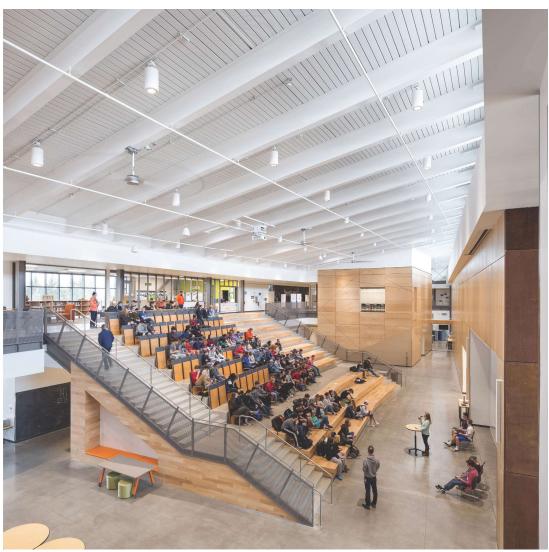
FLEXIBLE ASSEMBLY SPACE FOR ENTIRE SCHOOL

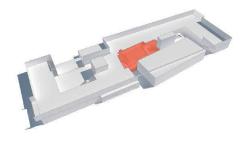
- Heart of the school
- · Center of culture and community
- · Open and centrally located
- Flexible seat stair
- · Formal lecture or "hangout"
- · Performance or lounging
- · Gathering or leaving
- Eating or sleeping















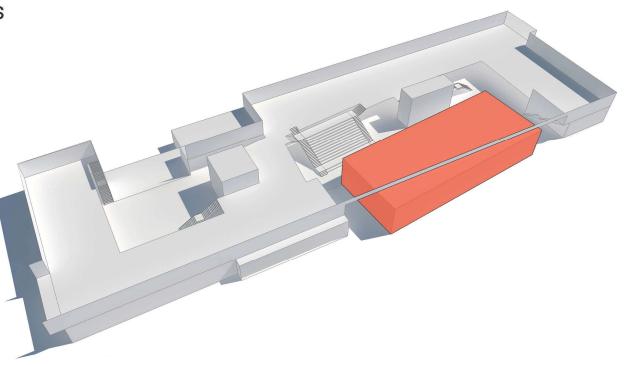


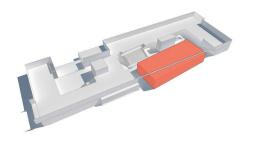


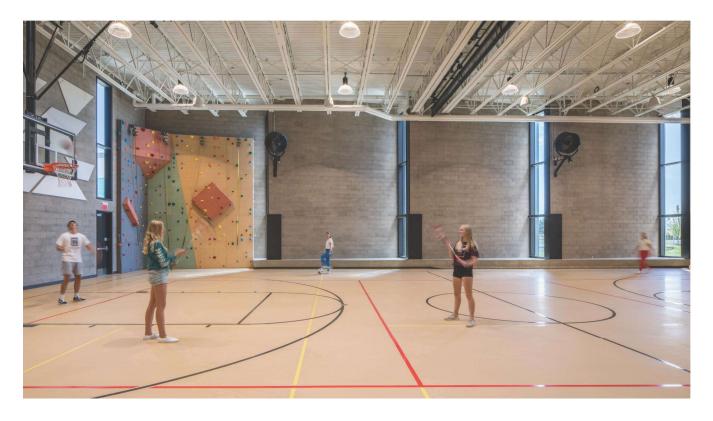
FLEX EXHIBIT

FLEXIBLE PRESENTATION & FITNESS

- Adaptable exhibition space
- Open, closed, active, or quiet
- · Gymnasium or fitness studio
- · Curated gallery or music room
- Stage or backdrop
- · Performance or lecture

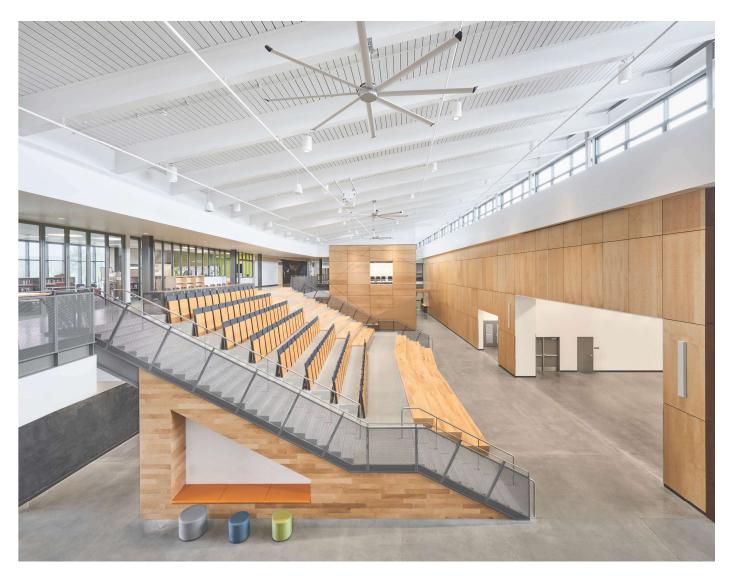








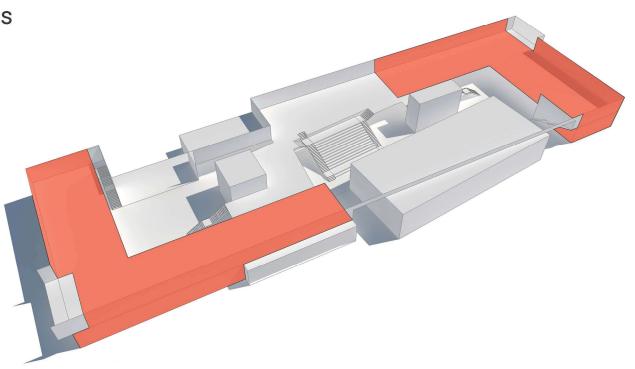


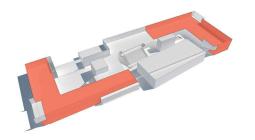


R & D PODS

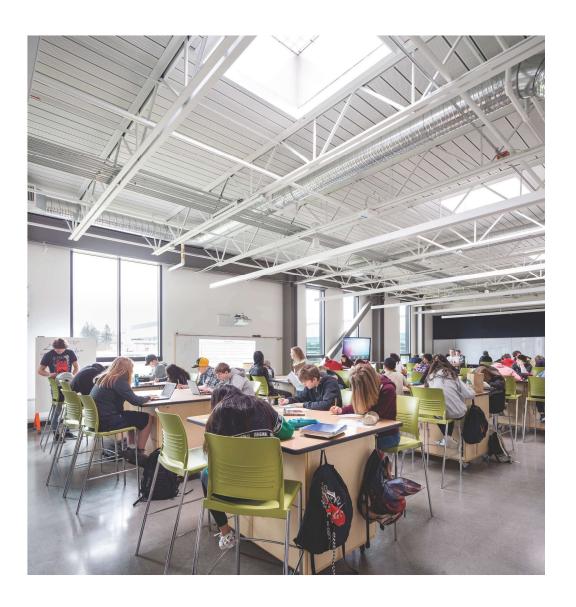
FLEXIBLE CORE LEARNING SPACES

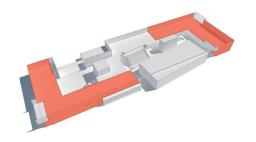
- Heart of the Collaborative Project based Learning
- · Open, closed, active, or focused
- Team studios
- Classrooms
- Project Labs
- · Science Labs
- Think Tanks

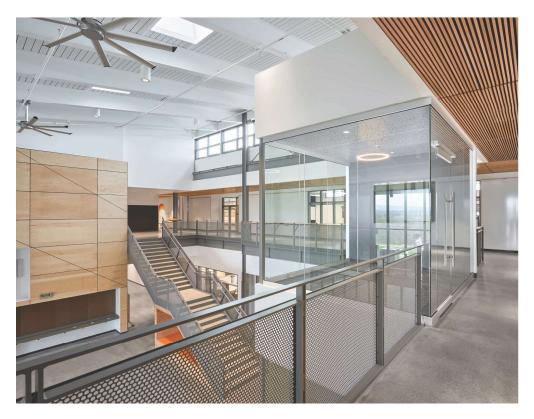










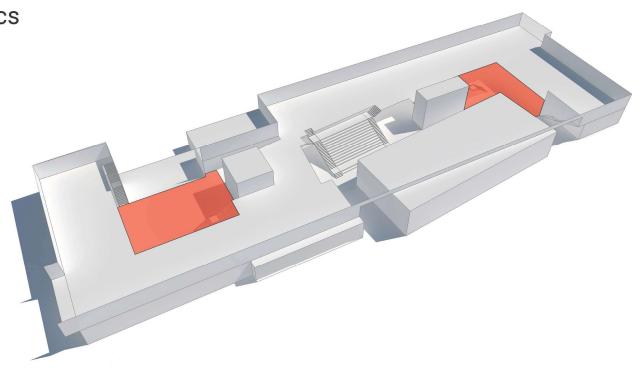


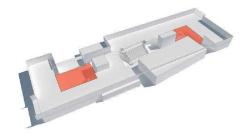


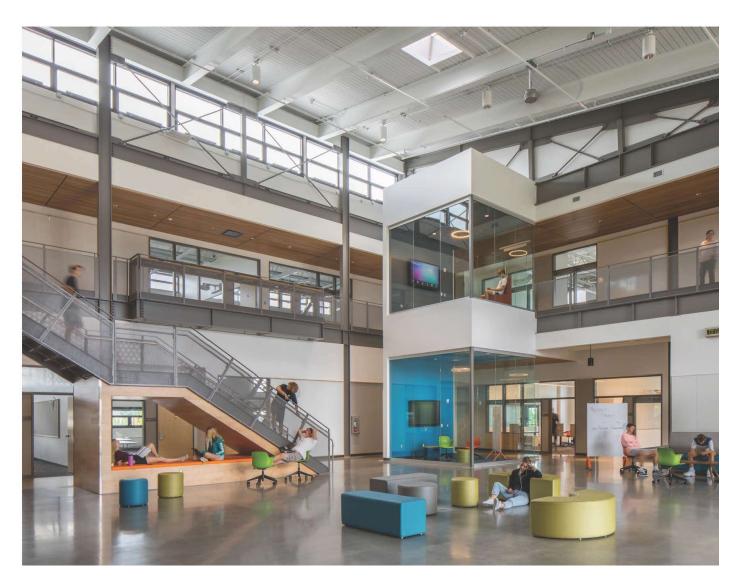
R & D COMMONS

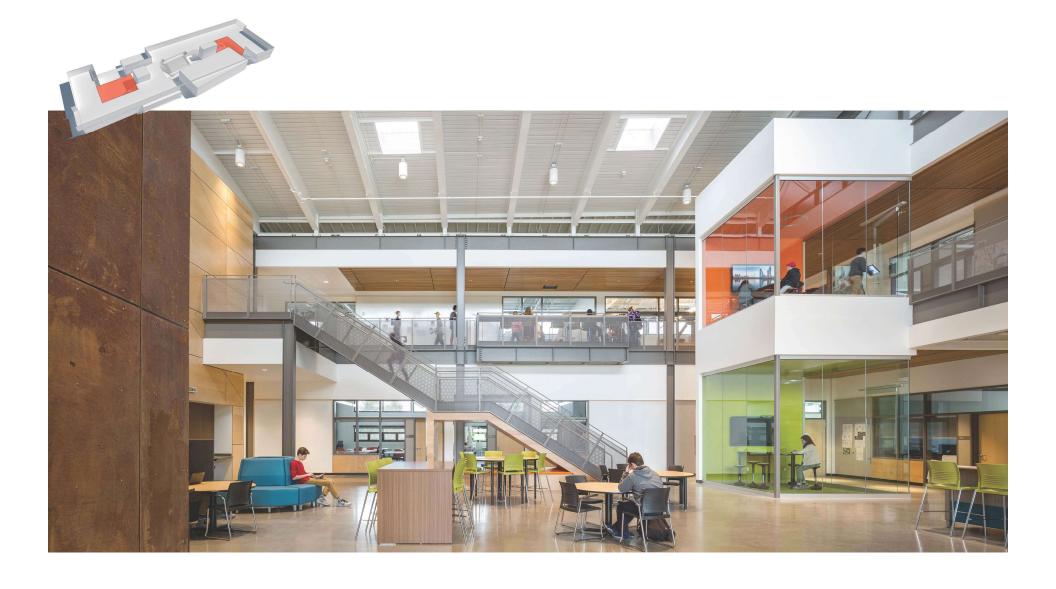
FLEXIBLE CORE LEARNING SPACES

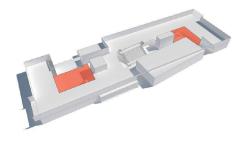
- Two Research Commons for 300 Students
- · Connected to each R+D Pod
- · Open, closed, active, or focused
- · Direct Access to the Outdoors
- Collaborative
- Technology Infused





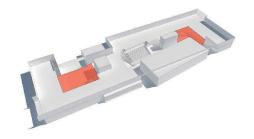












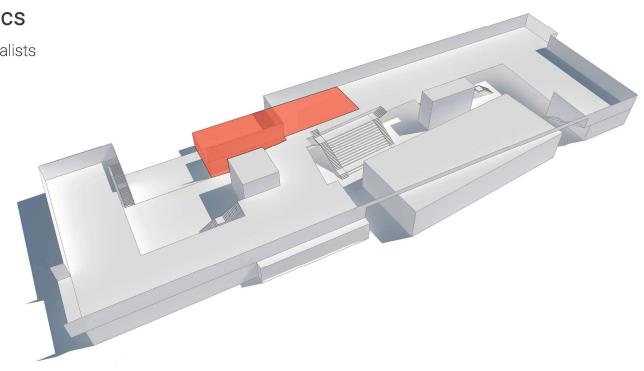


FAB LAB

CENTRALLY LOCATED FABRICATION SPACE

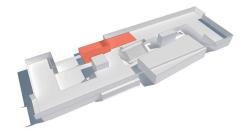
Activities/Charactersitics

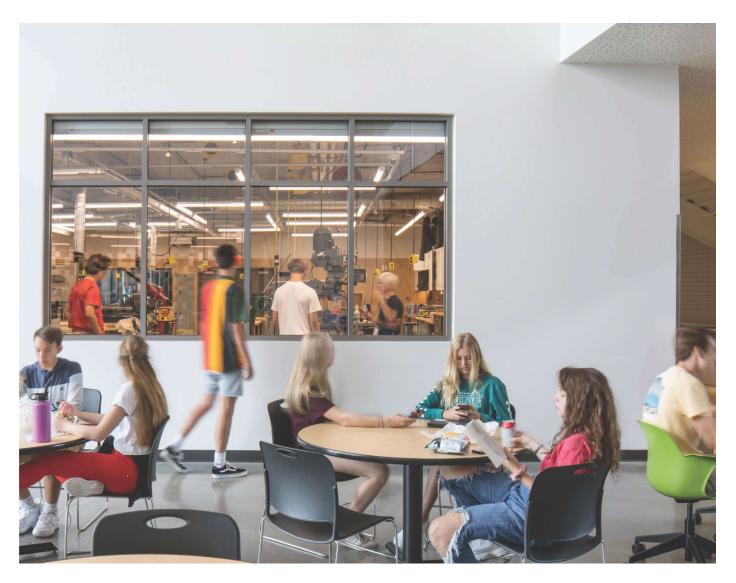
- Managed & Supervised by Specialists
- Fabrication area
- Industrial equipment
- Digital control room
- · Digital lab
- Tools exchange
- · Outdoor Fabrication area
- · Direct Access to the Outdoors
- Collaborative
- Technology Infused
- Transparent







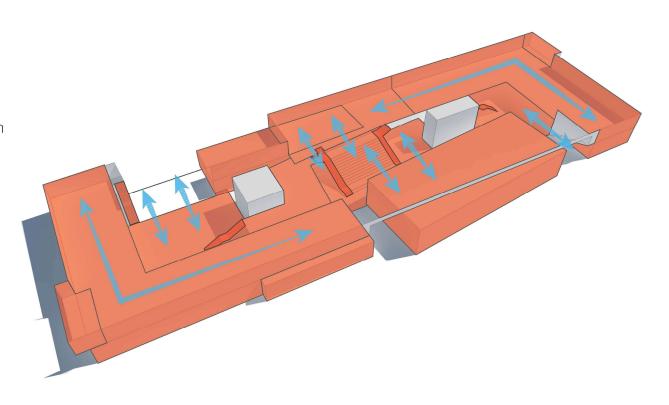


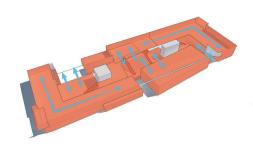


FLEXIBILITYADAPTABLE SPACES

Activities/Charactersi

- Variety of Spaces
- Flexibility of Use
- Readily Adaptable
- Strategic Infrastructure Location





VARIETY OF SPACES

WORKING SPACES - LOW BAY



COPY ROOM WORK ROOM STORAGE



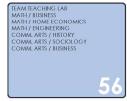




TEACHING SPACES - LOW BAY



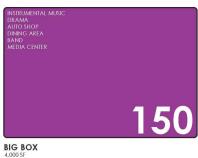


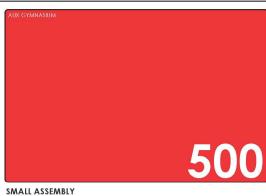


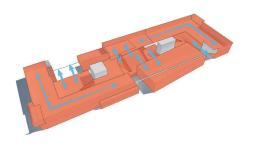
INTERDISCIPLINARY STUDIO

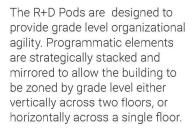
TEACHING / ASSEMBLY SPACES - HIGH BAY

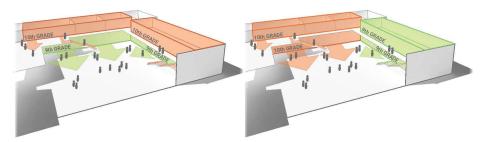




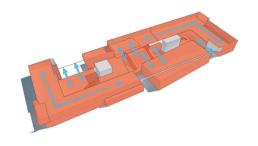






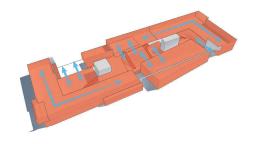








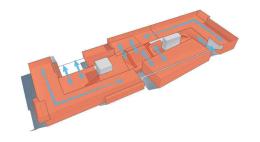
















What Else Makes Odyssey & Discovery Unique?

- Students taught by teaching teams
- Teaching teams have autonomy to use time flexibly
- Passion projects
- Standards-based-learning
- Collaboration and communication
- We want students to be EPIC Entrepreneurs, Producers, Innovators, and <u>Contributors</u>



Example: 9th Grade LEAP Project

The Problem

The farming population is aging; the average age of farmers in the world is 60. The population demographic is increasing and changing - we need to increase our production of food by 70% by 2050 to nourish the world's population. Simultaneously, agricultural productivity is stalling; and young people do not always see a lucrative future in agriculture but prefer to seek employment in urban areas.



Example: 9th Grade LEAP Project

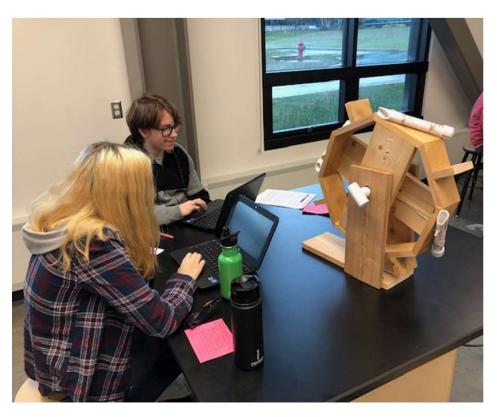
The Challenge

The objective of this project is to design and build a new technology for resourcepoor youth to help increase the productivity and profitability of vegetable production.

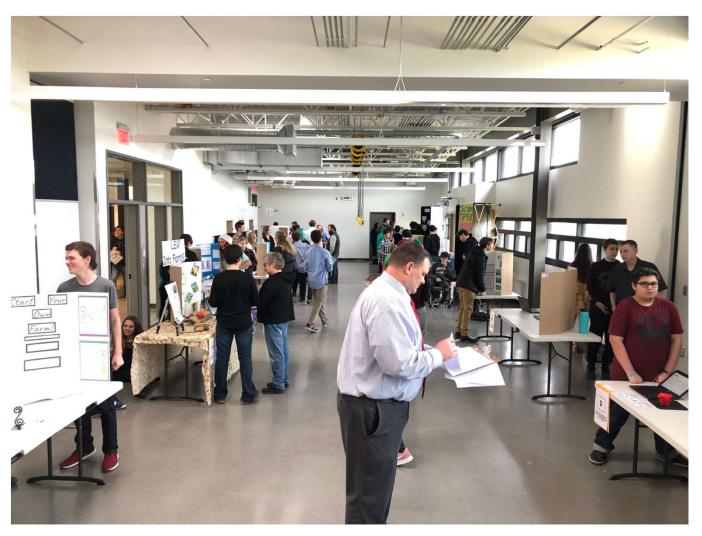
What you create should be exciting and inspiring so that young people see the benefit and opportunity in working in the agricultural sector.



Example: 9th Grade LEAP Project











Student and Parent Voice

