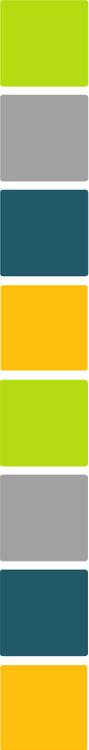


Welcome!

Educational Visioning & Beyond

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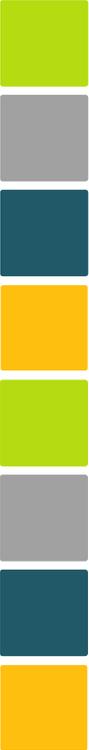
Course Title: Educational Visioning & Beyond

Course Numbers: Web26

Credits: 1.0 LU, AIA CEUs

Speakers: Frank Locker, Ph.D.

Dates: December 6, 2017

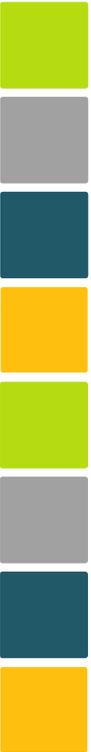


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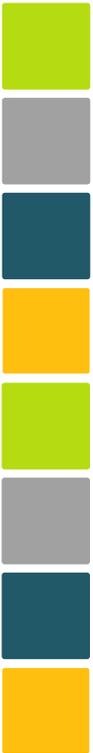
Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.



Course Description

The webinar will focus on these defining issues:

- This changing world: what the futurists predict for our students
- What students need for success in the 21st century
- Review of past, current best, and next educational practices
- Critique of traditional school facility planning concepts
- Planning principles for futureproof facilities
- Role model school facilities in Ohio and around the world

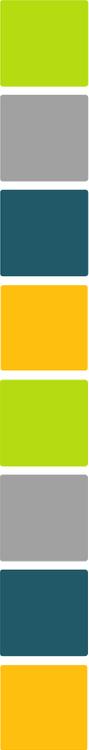


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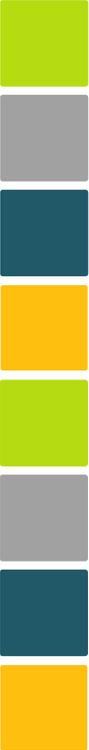


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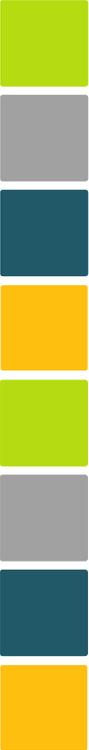
<http://ofcc.ohio.gov/NewsEvents/Webinars/WebinarArchive.aspx>



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Responses will be provided at the end of the webinar.



Today's Guests:

Frank Locker, PhD

Frank Locker Educational Planning

Buddy Harris

Director, Office of Innovation, ODE

Holly Lavender

STEM Education Lead, Office of Innovation, ODE

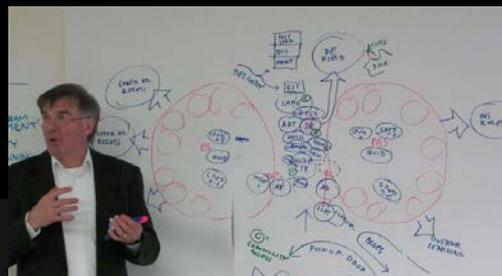
Glenn Rowell

Planning Administrator, OFCC



Grandview Heights Schools

Educational Visioning+ Beyond: Creating Future Proof Learning Environments through a Deep Dive into the Future of Education



Frank Locker PhD

fl@franklocker.com

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Webinar Agenda

- This Changing World
 - History
 - Futurist Thoughts
- Educational Visioning
 - Why – Who - How
- Visioning Outcomes
 - As developed by Ohio Schools
- Facilities that Support Innovative School Visions
 - World Examples
 - Ohio Examples



Carrollton Local Schools

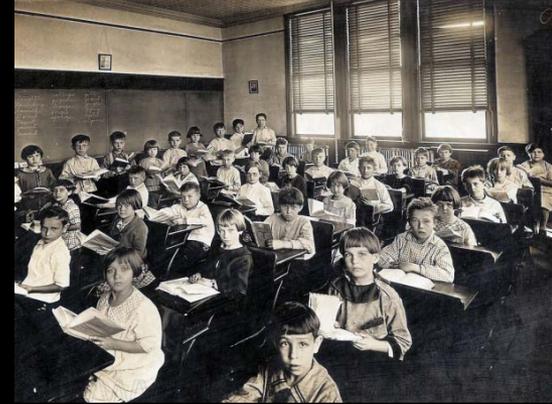


The History of Work + School

100 YEARS AGO



75 YEARS AGO



50 YEARS AGO



TODAY

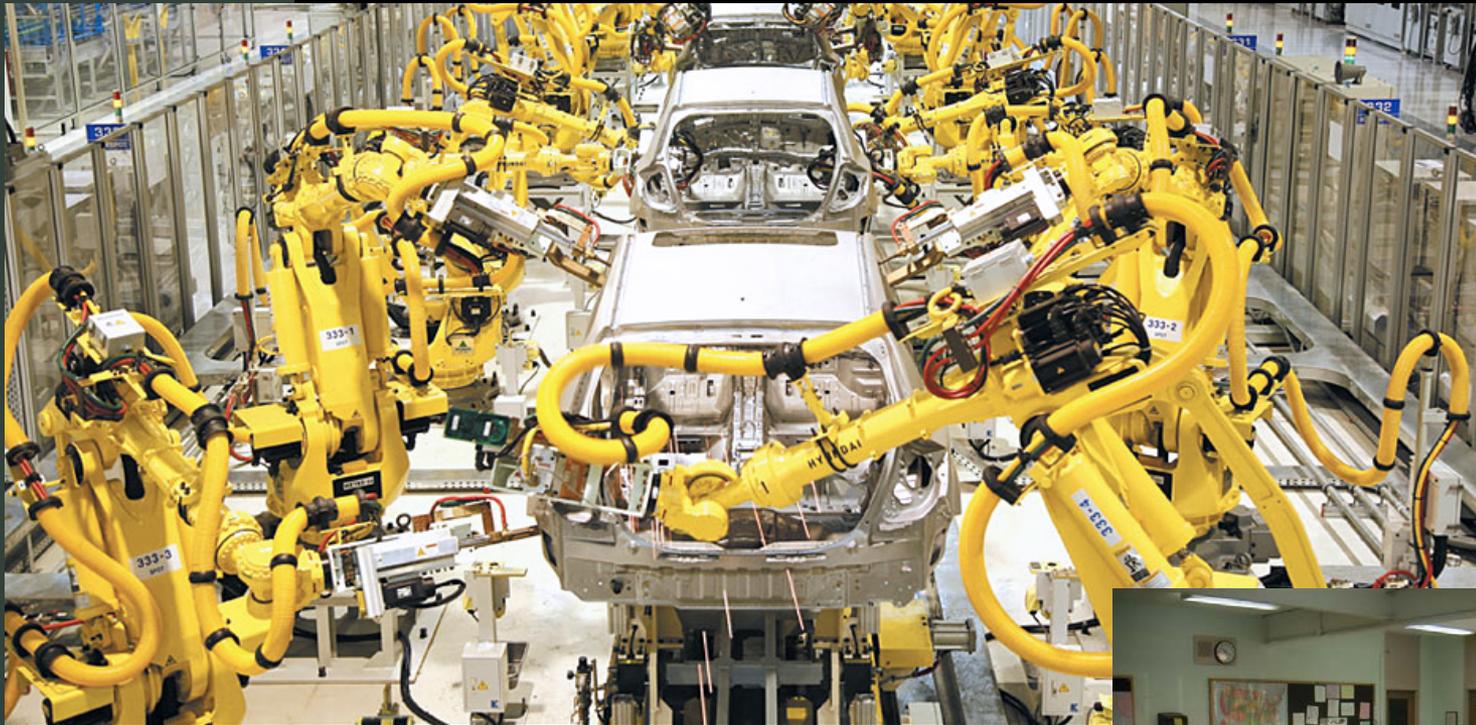


The History of Work + School

100 YEARS AGO



The History of Work + School



TODAY



The History of Work + School



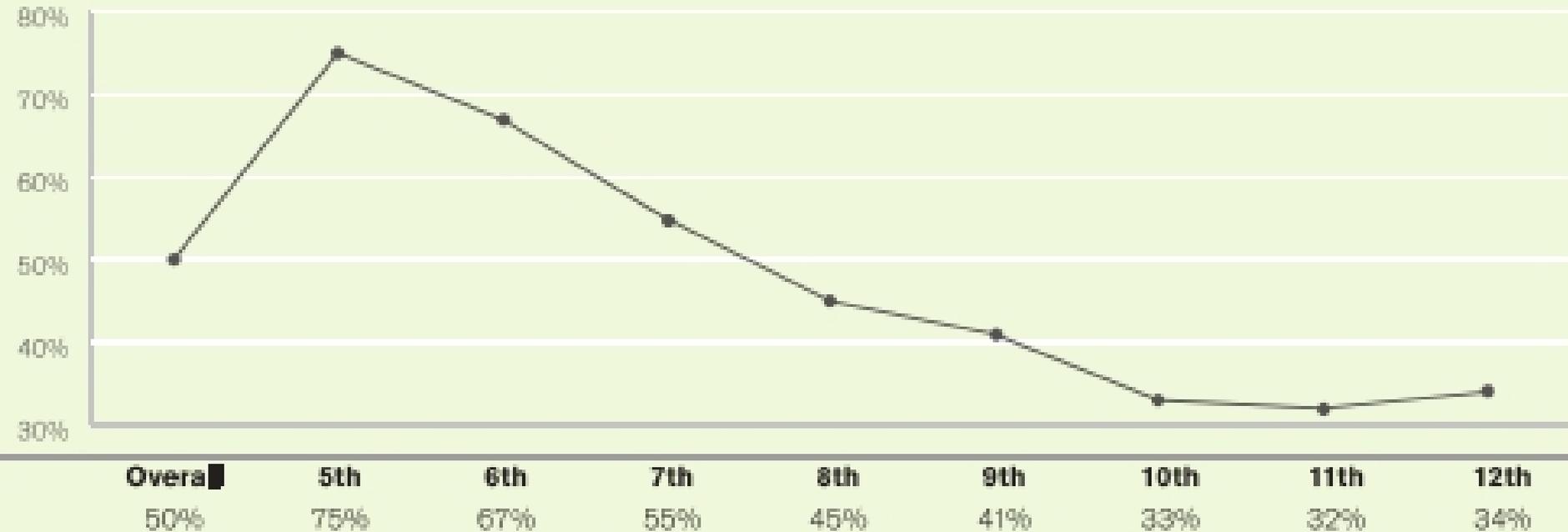
TODAY



Learning Research

STUDENT ENGAGEMENT

% ENGAGED, BY GRADE



ENGAGEMENT:

The involvement in and enthusiasm for school.

Engaged students are excited about what's happening at their school and what they're learning.

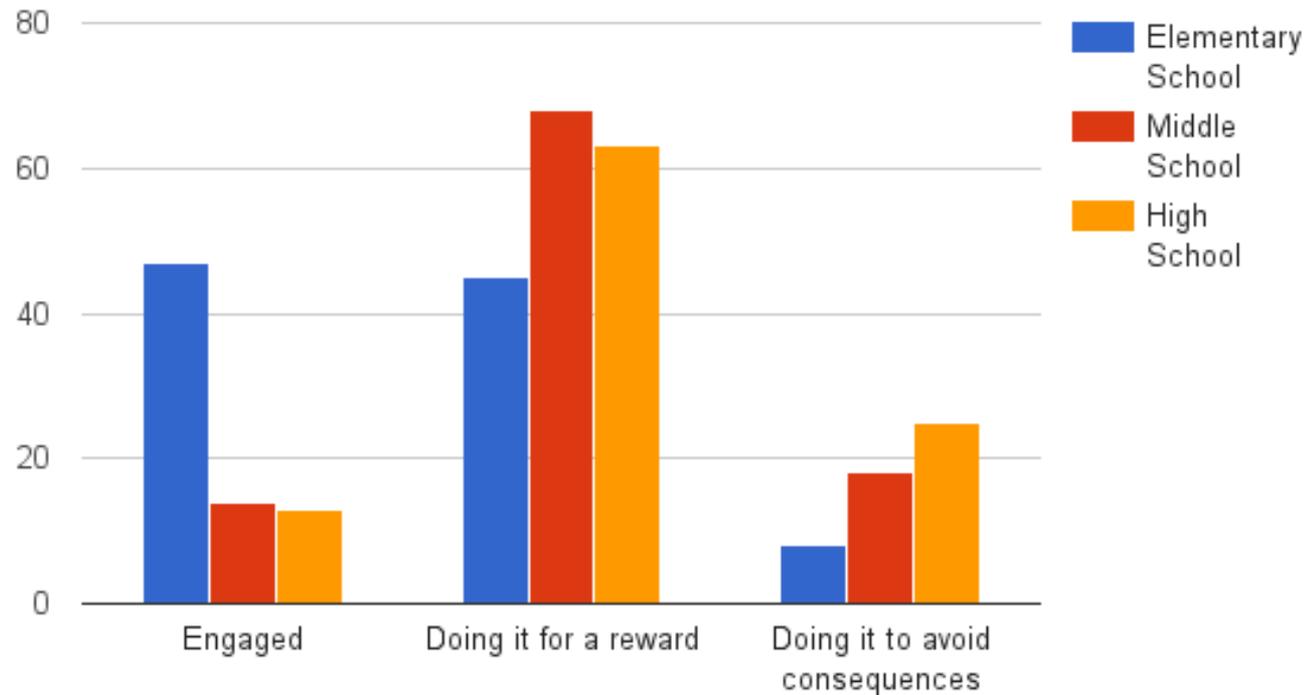
These students contribute to the learning environment, and they are psychologically committed to their school.



Learning Research

STUDENT ENGAGEMENT

APS Engagement Levels



Futurist Thoughts

DAVID HOULE: SHIFT THINKING

- Legacy thinking makes decisions about the future based on what we have done in the past
- Shift thinking makes decisions about the future based on understanding the future

What should we do?



Futurist Thoughts

THOMAS FREY, FORMER GOOGLE FUTURIST

2030

1. Augmented Reality Architects
2. Alternative Currency Bankers
3. Seed Capitalists
7. Urban Agriculturalists
12. 3D Printing Engineers
13. 3D Food-Printer Engineers
17. Wind Turbine Repair Techs
19. Smart Dust Programmers
26. Elevated Tube Transport Engineers
32. College and University Dismantlers

As a rule of thumb, 60% of the jobs 10 years from now haven't been invented yet



Futurist Thoughts

THOMAS FREY, FORMER GOOGLE FUTURIST

2030

Over 2 billion jobs will disappear by 2030

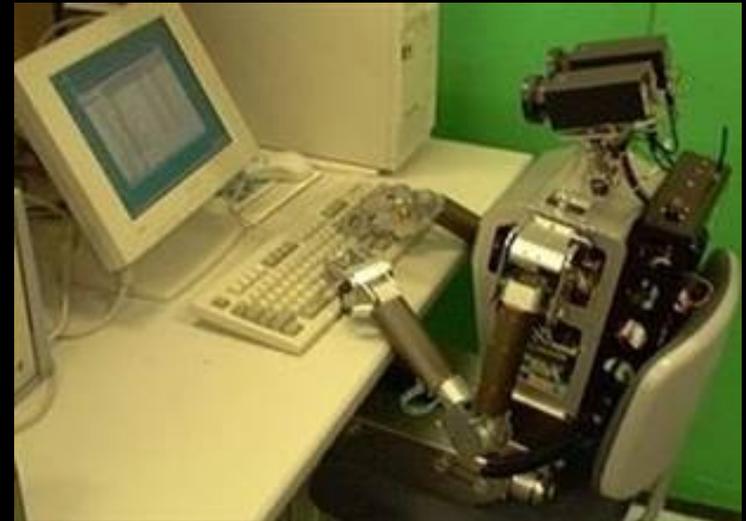


Futurist Thoughts

MARSHALL BRAIN, ROBOTIC NATION

Nine jobs humans may lose to robots:

- Pharmacists
- Lawyers and paralegals
- Drivers
- Astronauts
- Store clerks
- Soldiers
- Babysitters
- Rescuers
- Sports writers and other reporters



Futurist Thoughts

TOP FIVE DESIRABLE FUTURE WORK SKILLS

- Judgement + decision making
- Fluency of ideas
- Active learning
- Learning strategies
- Originality

“Things like creativity, adaptability, and judgment will be more important than ...subject-specific knowledge”



The Future of School



20th + 21st Century Learning

20th CENTURY

TEACHER CENTERED

- Focus on teaching efficiency
- Producing workers for the industrial age
- Content knowledge
- “Broadcast” teaching
- Students work alone

- Content is abstracted
- Teacher is holder of knowledge
- Teacher works alone
- Subjects taught separately

- Mostly direct instruction + papers

EARLY 21st CENTURY

STUDENT CENTERED

- Focus on learning effectiveness
- Producing citizens for the digital age
- Relationships + skills
- Personalized learning
- Collaborative learning

- Content is relevant
- Teacher is a guide
- Teacher collaboration + teams
- Integrated/interdisciplinary learning
- Project-based learning



21st + 21st Century Learning

EARLY 21st CENTURY

STUDENT CENTERED

- Focus on learning effectiveness
- Producing citizens for the digital age
- Relationships + skills
- Personalized learning
- Collaborative learning

- Content is relevant
- Teacher is a guide
- Teacher collaboration + teams
- Integrated/interdisciplinary learning
- Project-based learning

MID 21st CENTURY

STUDENT LED

- Students doing things
- Immersed in projects
- Students find + follow passions
- Pervasive technology
- Virtual reality

- Pervasive arts
- Teachers are advisors
- Outside experts are advisors
- Students are teachers
- Dual enrollments/early college

- Flex hours and months
- Students start businesses
- Global consciousness
- Global networks



Educational Visioning

WEBINAR ORGANIZATION

- What is an Educational Vision?
- Who should establish the Vision
- How to organize workshops for effective stakeholder participation
- Issues schools and districts commonly choose to address
- Educational + facility concepts developed in Ohio workshops
- Facility designs that incorporate those concepts



Harrison Hills City School District



Educational Visioning

WHAT

- What is an Educational Vision?

Clear statement about:

- Most appropriate and effective educational practices
- School organizational structure
- Concepts for the school facilities needed to support them
- The “roadmap” for transforming schools



Educational Visioning

WHAT

What is an Educational Vision?

21st CENTURY GUIDING PRINCIPLES

EDUCATION

- Teacher as the guide
- Collaboration
 - Among students
 - Among teachers
- Active, engaged learning
 - Small collaborative work groups
 - Projects
 - “Hands-on” learning
- Multiple modalities of learning
- Build relationships

FACILITIES

- Build relationships
- Make learning visible
- Small Learning Communities
- Design flexibility into building organization, furniture, + daily timetables
- Use circulation for learning



Educational Visioning

WHO

Who should establish the Vision

- Teachers
- Administrators
- Students
- Parents
- Community leaders
- Institutional leaders
- Business leaders
- (Project architects)



Educational Visioning

STAKEHOLDER PARTICIPATION

How to organize workshops for effective stakeholder participation

HOW MANY PEOPLE:

- 30-50 people

HOW MUCH TIME:

- Ideally 3 days, 8:30 to 3:30
- Possible 2 days
- Possibly other times (after school, evenings, Saturday)



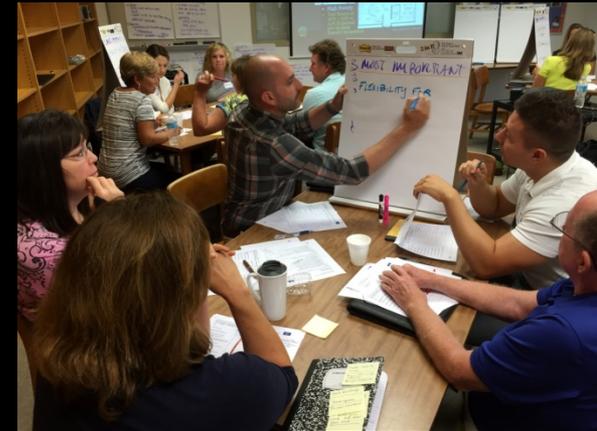
Educational Visioning

VISIONING ISSUES

Issues schools and districts commonly choose to address (established with administration before the start):

DAY 1: SCHOOL SNAPSHOT

- Snapshot of Current Situation
- Overview: 21st Century Learning
- Defining Student Success in Life
- Review of Current Programs, Services, Deliveries
- + School Organizational Structure
- \Most Effective Learning Modalities



Lakeview Local Schools



Educational Visioning

VISIONING ISSUES

Issues schools and districts commonly choose to address

(established with administration before the start):

- What to Teach + How to Teach
 - Ohio New Learning Standards + innovative, effective deliveries
- Blended Learning/ Flipped Classrooms
- Making Things to Learn
- Project-Based Learning
- Mastery Learning/ Adaptive Learning
- School Organization
- Homework: School in 2037



Educational Visioning

VISIONING ISSUES

Issues schools and districts commonly choose to address

(established with administration before the start):

DEFINING SCHOOL

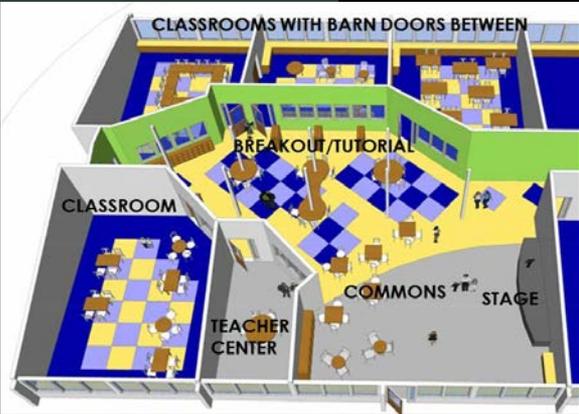
- Discuss homework: School in 2037
School Transformation + Development Map
- Places for Learning
- Future Furniture
- Defining Spaces
- Overall School Relationship Diagram(s)
- Key Words: Education, Facilities
- Next Steps



Educational Visioning

VISIONING CONCEPTS

Most Favored Places for Learning



FOREST AVENUE K-2 CENTER
Cited by 7 of 10 Table Teams

**NEW ALBANY
GRADE 1-8 SCHOOL**
Cited by 6 of 10 Table Teams

**MILAN HIGH SCHOOL CENTER
FOR INNOVATIVE STUDIES**
Cited by 4 of 10 Table Teams

Grandview Heights Schools District-Wide Visioning



Educational Visioning

VISIONING CONCEPTS

Connections + Separations: Parents Respond

Winton Woods Secondary School Grades 7 through 12				
MAJOR SPACES	MS SEPARATE	SAME TIME USE	SEPARATE TIME USE	HS SEPARATE
Entrance	6	2	4	5
Classrooms (Eng, math, history)	9		3	9
Science Labs	4		7	6
OT/PT	1	5	6	1
Tech/STEM Labs	3	1	8	2
Music	3	4	7	3
Art	7	3	5	5
Gym(s)	6	1	6	6
PE Locker Rooms	7		4	7
Administration	7	5		7
Guidance	5	7		5
Nurse	5	7		5
Teacher Planning Centers	4	6		4
Food Court/Cafeteria	5		7	5

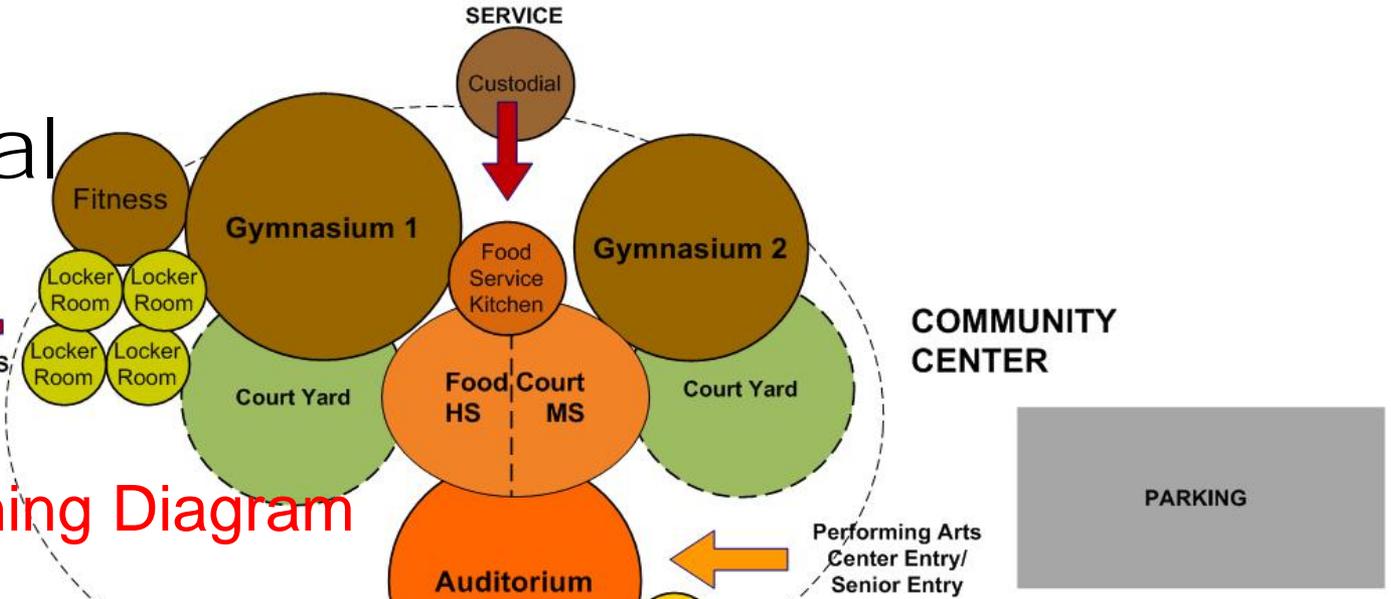
Winton Woods City Schools K-6 + 7-8 Schools Visioning



Educational Visioning

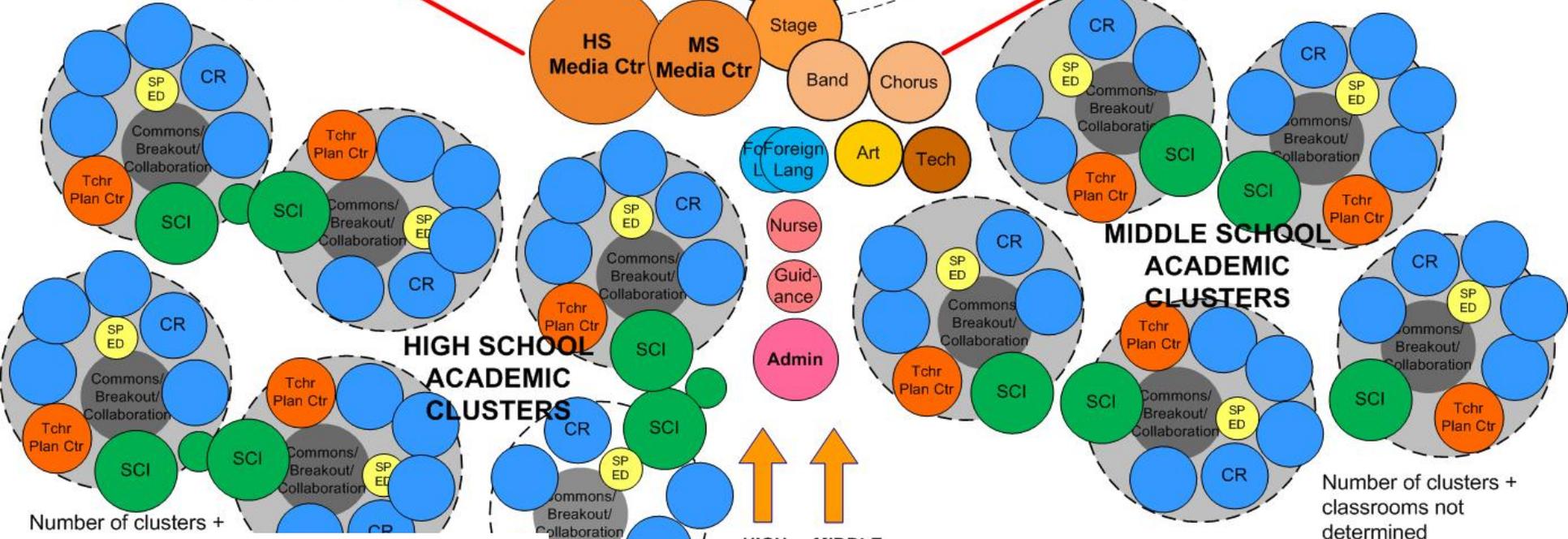
VISIONING CONCEPTS → TO PLAYFIELDS

Overall Planning Diagram



SECURE ZONE GRADES 9-12

SECURE ZONE GRADES 6-8



Co-located MS + HS

Frank Locke Educational Planning

North Olmsted Local Schools

Educational Visioning

DELIVERABLES

Educational and facility concepts developed in Ohio workshops

WRITTEN DELIVERABLES

- District-wide Educational Vision
- Facilities Concepts

SOCIAL/ EMOTIONAL DELIVERABLES

- Win participant hearts and minds
- Groom spokespeople for future meetings:
 - With faculty/staff
 - With parents + community



Educational Visioning

FACILITY DESIGNS

Facility designs that incorporate those concepts

GLOBAL INSPIRATION

- Wooranna Park Primary School
 - Best elementary school in the world

OHIO INNOVATIONS

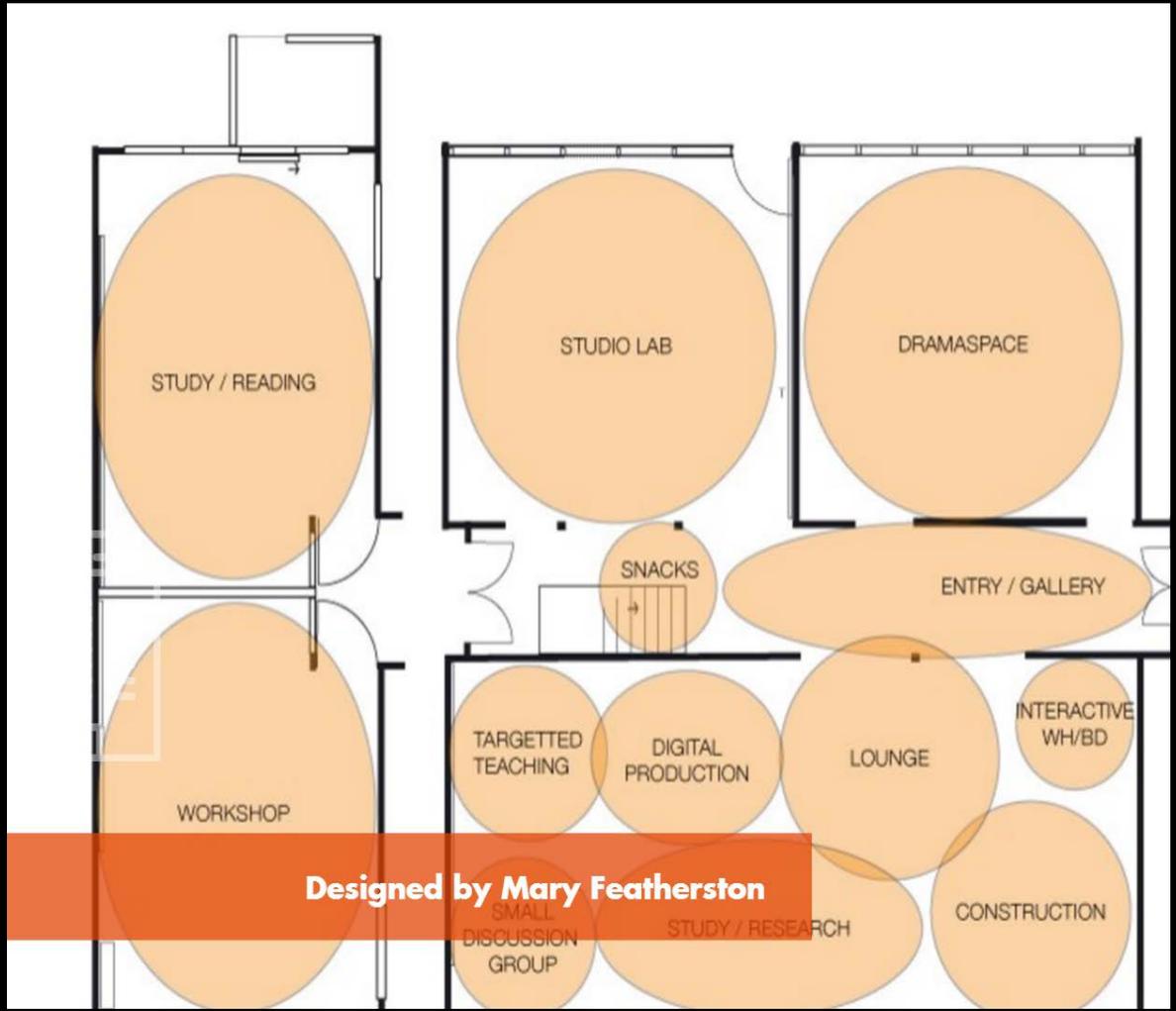
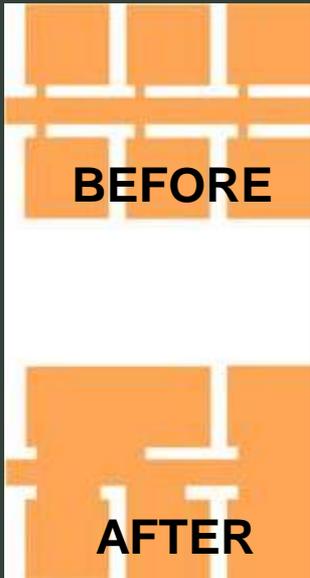
- West Muskingum Elementary School
- Beaver Local K-12 School
- New Albany Grade 1-8 School
- Fairfield Freshman School



Wooranna Park Primary School

MELBOURNE, AUSTRALIA

Facility designs that incorporate Visioning concepts



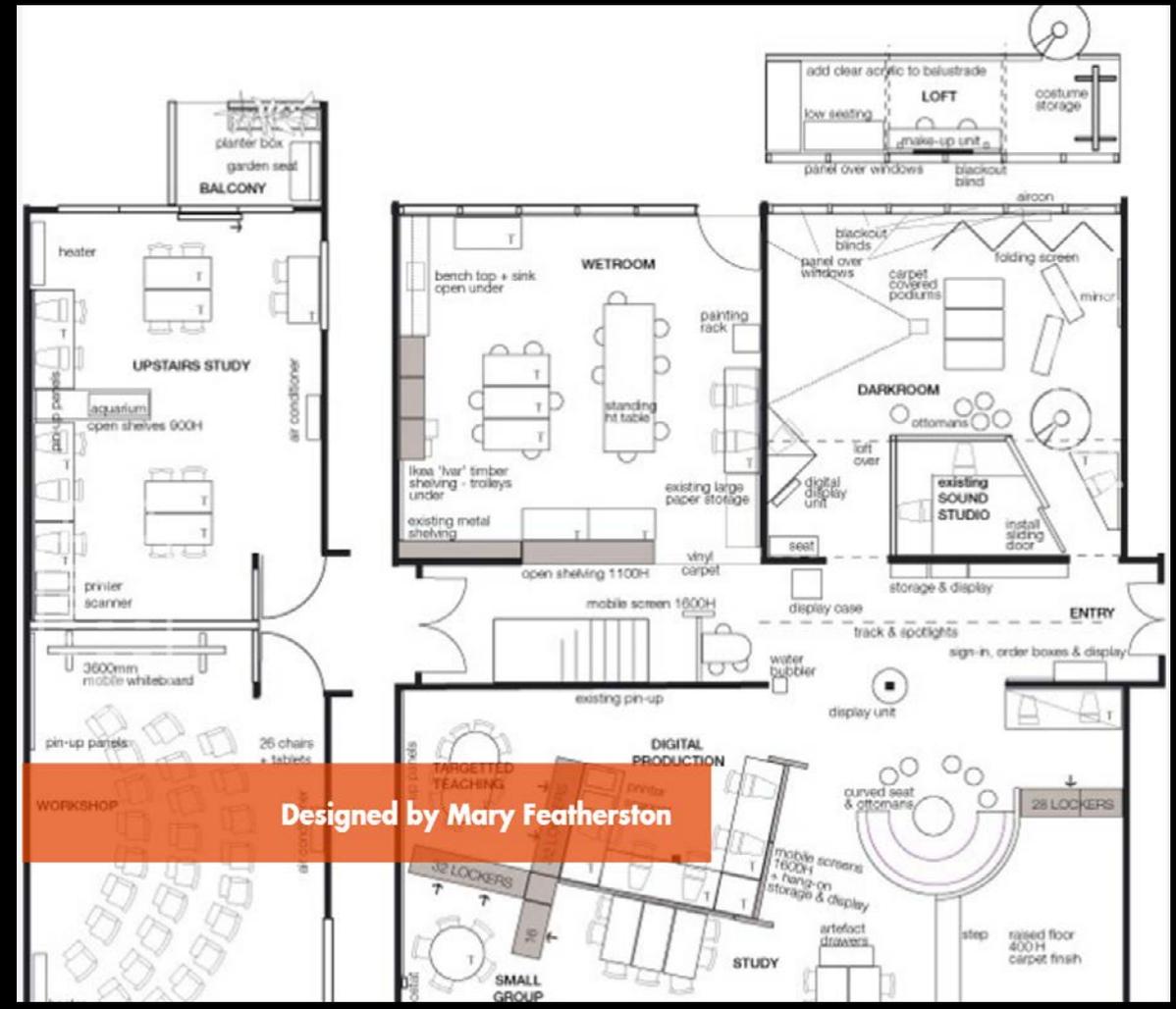
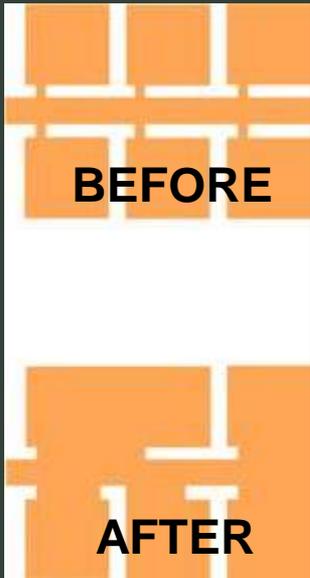
- High Poverty
- Test Scores at 36% - 73% vs 12% Expected per Student Family Occupation



Wooranna Park Primary School

MELBOURNE, AUSTRALIA

Facility designs that incorporate Visioning concepts



Designed by Mary Featherston

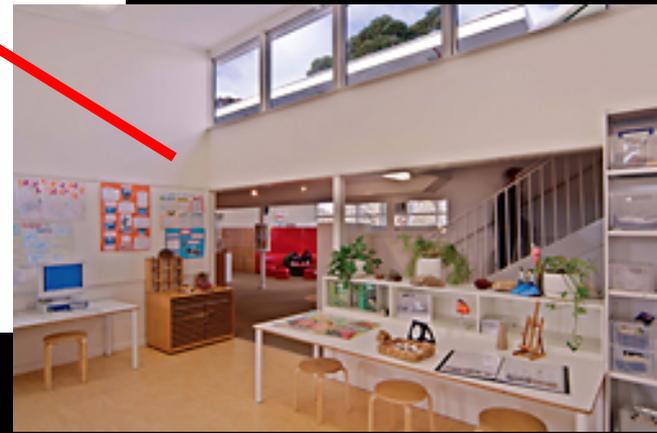
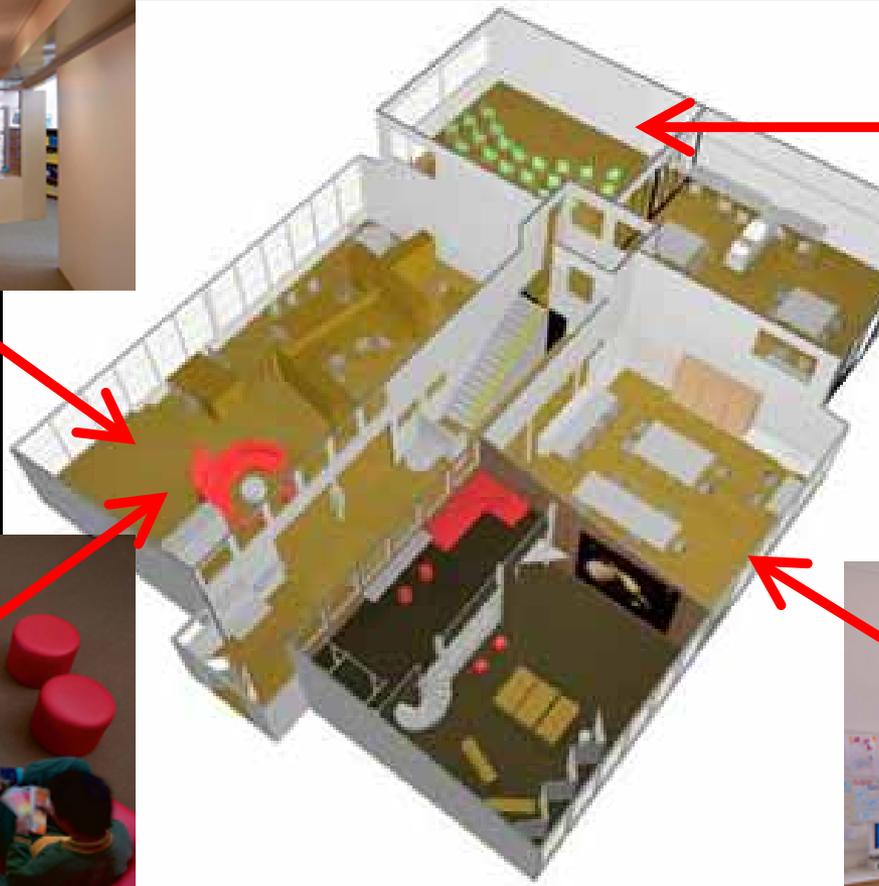
- Year 5 + 6
- 110 Students
- Teacher Teams
- Student Trams
- Activity Zones



Wooranna Park Primary School

MELBOURNE, AUSTRALIA

Facility designs that incorporate Visioning concepts





West Muskingum Elementary School

WEST MUSKINGUM LOCAL SCHOOLS, Zanesville
Facility designs that incorporate Visioning concepts



Frank Locker Educational Planning

Fanning Howey Architecture Engineering

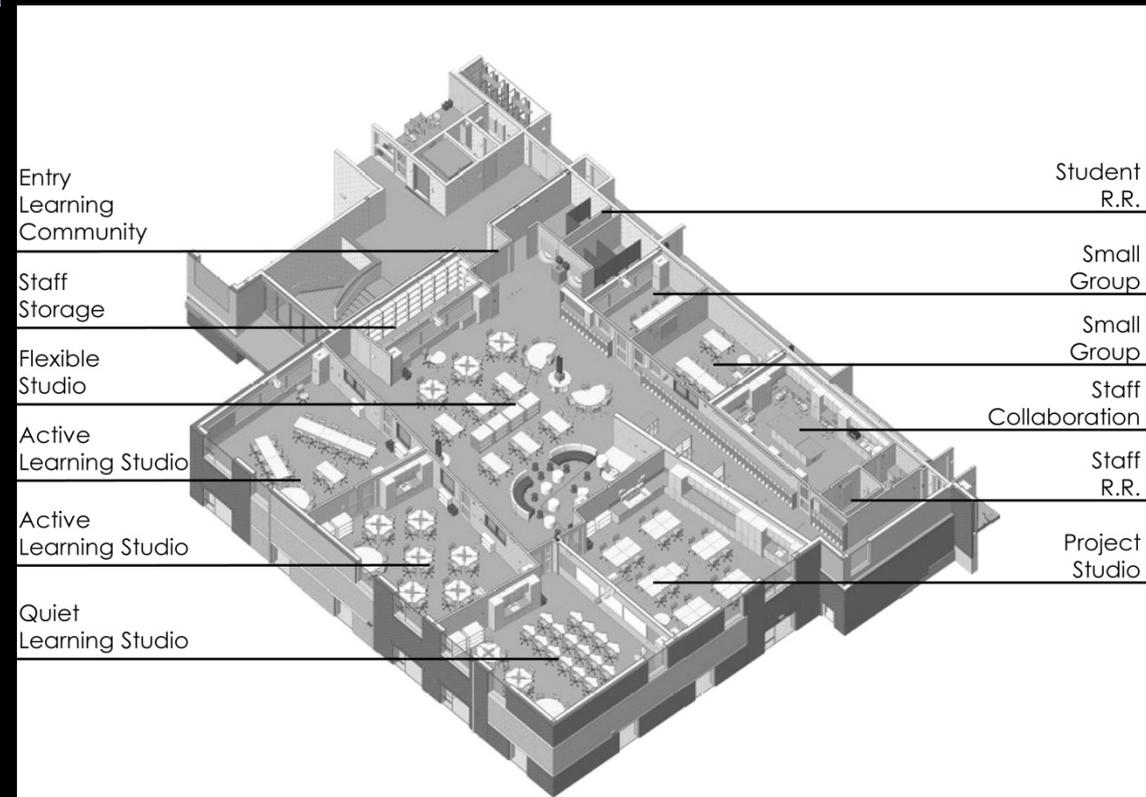
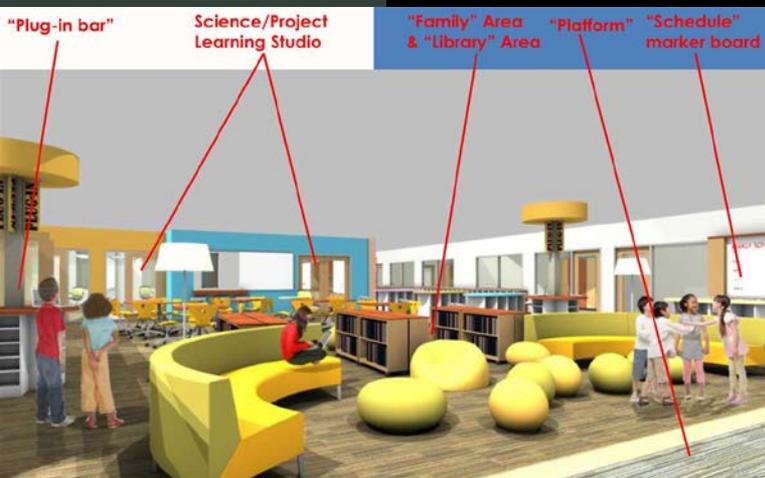




West Muskingum Elementary School

WEST MUSKINGUM LOCAL SCHOOLS, Zanesville

Facility designs that incorporate Visioning concepts



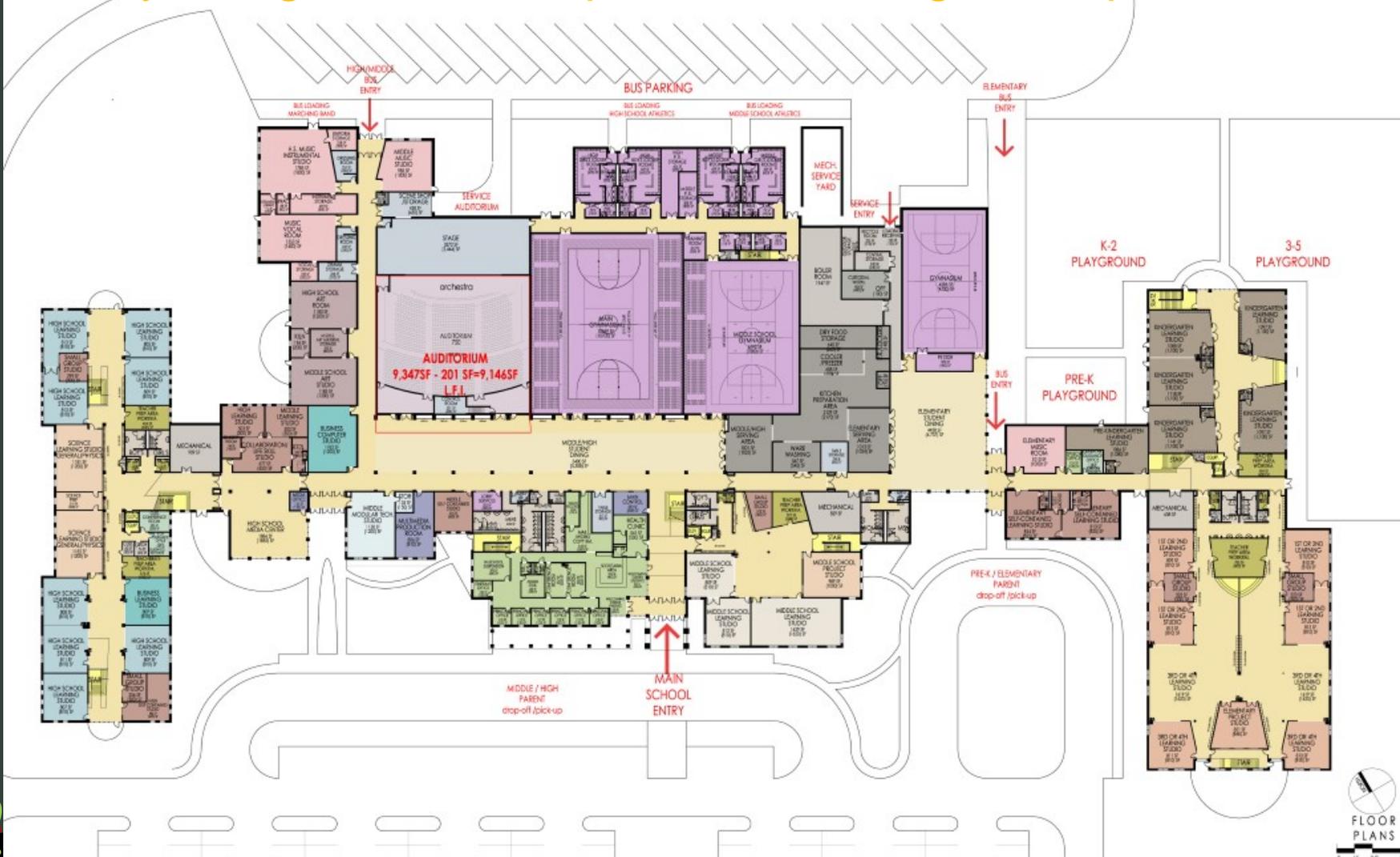
FANNING HOWEY



Beaver K-12 School

BEAVER LOCAL SCHOLS, Lisbon

Facility designs that incorporate Visioning concepts



17034-11
17
DECEMBER
2013





Beaver K-12 School

BEAVER LOCAL SCHOLS, Lisbon

Facility designs that incorporate Visioning concepts



Science Labs



Staff Collaboration



Flexible Studios

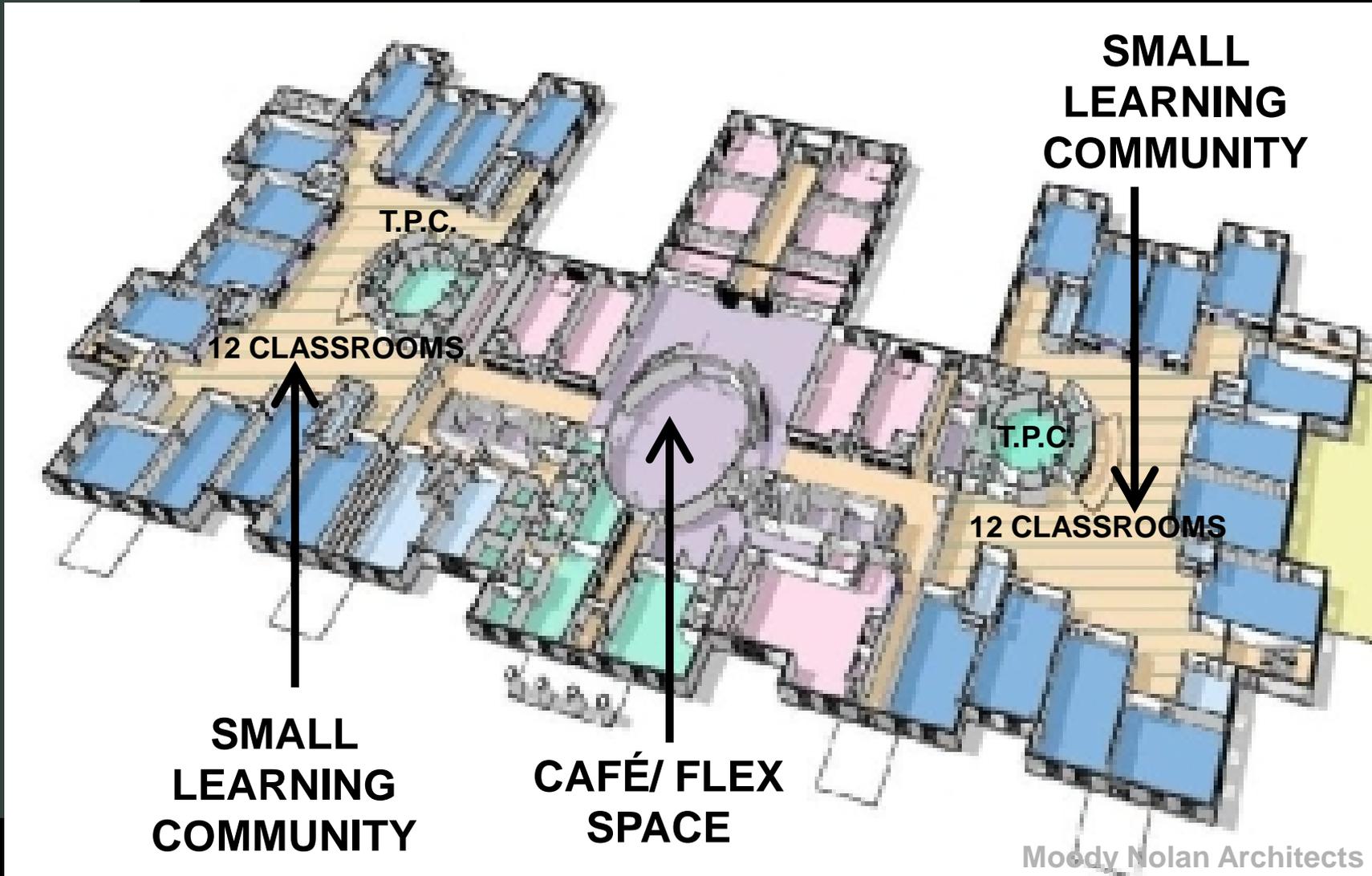
5 Learning Studios





Grades 1-8 School

NEW ALBANY-PLAIN LOCAL SCHOOLS, New Albany
Facility designs that incorporate Visioning concepts





Grades 1-8 School

NEW ALBANY-PLAIN LOCAL SCHOOLS, New Albany Facility designs that incorporate Visioning concepts





Grades 1-8 School

NEW ALBANY-PLAIN LOCAL SCHOOLS, New Albany Facility designs that incorporate Visioning concepts

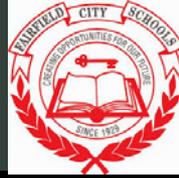


124
Teacher
Collaboration



Moody Nolan Architects

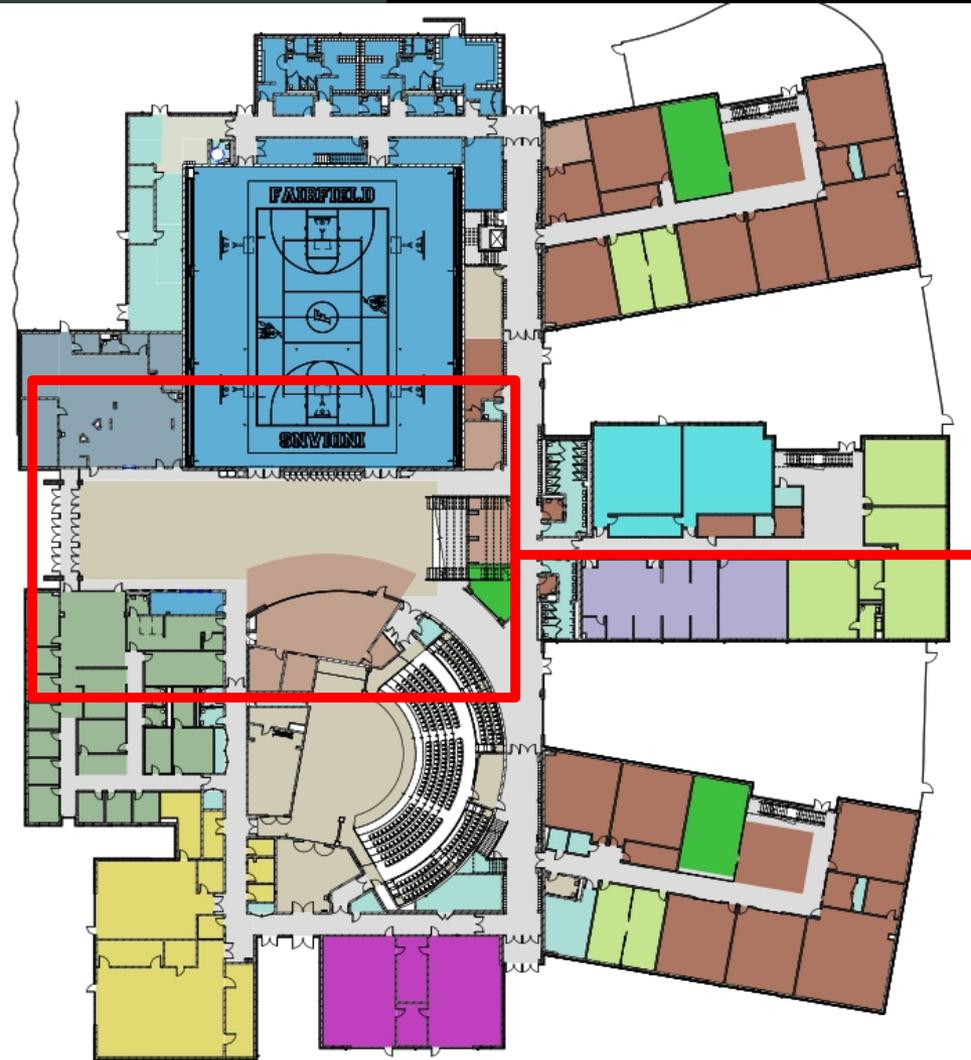




Fairfield Freshman School

FACILITY DESIGNS

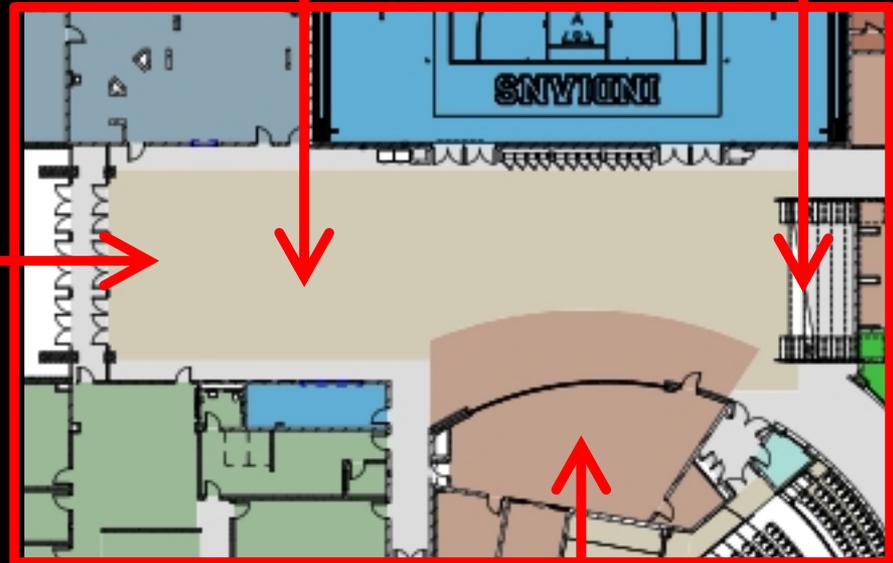
Facility designs that incorporate Visioning concepts



New Fairfield Freshman School

CAFÉ-FOOD
COURT/ LOBBY/
SEATING

PRESENTATION
STAIR



MEDIA
CENTER



Fairfield Freshman School

FACILITY DESIGNS

Facility designs that incorporate Visioning concepts

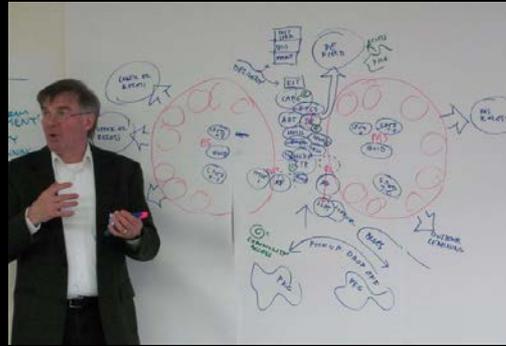


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STAIR**

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Frank Locker PhD

Educational Visioning+ Beyond: Creating Future Proof Learning Environments through a Deep Dive into the Future of Education



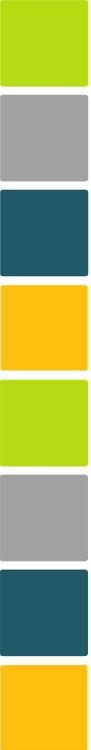


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Questions?

Frank Locker, PhD

fl@franklocker.com

Glenn Rowell

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This concludes The American Institute of Architects Continuing Education Systems Course

**Provider Name:
Ohio Facilities Construction Commission**

Provider #: G442

**Contact:
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