



# Educational Visioning Elementary Schools

Northbridge Public Schools Northbridge, MA



August 2017 Frank Locker Educational Planning





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## ACKNOWLEDGEMENTS

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## Executive Summary

## INTRODUCTION

This Educational Vision reflects the work of a Visioning Team; approximately 30 teachers, administrators, students, parents, community, and school committee members, plus the architects and owner's project manager. Created in three days of intense facilitated workshops it is intended to guide the long-term development of both education and facilities for the future elementary schools.

## EDUCATIONAL VISION Guiding Principles

The *Guiding Principles* presented here were created to express the values, beliefs, and concepts developed by the educator and community Visioning Teams which examined educational trends, best practices, and issues affecting the delivery of 21<sup>st</sup> century education. These *Guiding Principles* present the essence of that inquiry. They are not policy but they address the overarching themes identified by participants. They may serve as a foundation for the future schools. As such, they are intended to form the basis of future educational delivery and facilities planning. Staff professional development is crucial to the successful implementation of the educational concepts outlined here.

#### **OVERARCHING PRINCIPLES**

- This future-oriented Educational Vision incorporates a number of innovative best and next educational practices already in operation in classrooms in the Northbridge elementary schools. Extend those practices
- Create a common understanding of this Educational Vision among administrators, faculty, parents, and students to continue shifting the educational model from one that is fairly traditional to one that is more transformed
- Prepare students for success in the 21st century, an emerging world of global competition, uncertain employment prospects, infinite access to information, and rapid change in technology

## Ch 2 Executive Summary



- Teach 21st century skills at the same time as traditional content
- Build relationships with students, families, and communities through school structure and programs
- Aspire beyond the Common Core and beyond the Massachusetts Department of Elementary and Secondary Education (DESE) guidelines to do what is best for student learning, and to instill a life-long sense of wonder and purpose. Create independent, life-long learners
- Establish a program of staff Professional Development to support the educational deliveries outlined here

The full Guiding Principles are expressed in full in Ch 3, Educational Vision.

## Learning Modalities

The Community Visioning Team members identified these as the most effective ways for students to learn:

- Small Group Work/Student Collaboration
- Project-Based Learning
- Interdisciplinary Learning
- Social/Emotional Learning
- Teacher Teams/ Synchronous Collaboration
- Integrate Arts in Core

## School Structure

#### INTERNAL ORGANIZATION

- Ideally teachers would be paired, working in adjacent, linked classrooms, sometimes teaching alone, other times swapping specialties and at other times teaching simultaneously
- Lower Grades:
  - Choice of looping, traditional, or multi-grade
  - Multi-age classroom groupings
- Upper Grades:
  - o Thematic Vertical
  - o Multi-grade
  - o **Looping**

• Teachers "teaming," sharing students but separately teaching curriculum specialties

These most favored organizational structures call for the nature of school and role of teachers to be significantly changed.

#### SCHOOL STRUCTURE

The Visioning Team identified developmental ages of students and projected the most appropriate grade groupings to best serve them.

Participants identified preferred grade groupings and enrollment size to best serve the elementary years. All four Table Teams endorsed the 1030 student, PK-5 school option.

This strong sanction considers these issues:

- There is great concern for the number of transitions a student has to make in a PK-12 career
- Longer durations in a building build stronger relationships between teachers and students, and between teachers and families
- The larger building is recognized as offering greater operational efficiencies and less annual cost
- The full continuity of elementary grades in the PK-5 building will offer greater curriculum delivery continuity and consistency
  - o Including Special Education services
- Simplified transportation
- Brings facility and program delivery equity to all Northbridge Public Schools students

See Educational Vision Ch 3 for details.

## FACILITY CONCEPTS Places for Learning

The Visioning Team reviewed 13 exemplar schools from the USA, the United Kingdom, and Australia. for the future teaching and learning at Northbridge elementary schools.



Educational Visioning Elementary Schools Northbridge Public Schools Whitinsville, MA Frank Locker Educational Planning

## Ch 2 Executive Summary

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Essential characteristics of desired core learning spaces are:

- Learning spaces arranged as Small Learning Communities
- Classrooms are components of "suites of spaces," supported by other spaces immediately adjacent
- Circulation to be used for learning
- Classrooms are to be flexible, interconnected, and supported by auxiliary spaces including Extended Learning/ Collaboration/ Breakout/ Commons spaces
- Interdisciplinary possibilities
- Open, shared presentation areas, appropriate for student presentations and ad-hoc meetings
- Variety of furnishings, offering students and teachers more choices in supporting learning
- Possibility of student groups working in multiple places under the guidance of their teacher
- Teacher collaboration supported by the facilities, through double sized Classrooms, connections between Classrooms and strategic placement of related functions
- Teacher Planning Centers to support teacher collaboration and sense of community

For a full description of the most appropriate and least appropriate exemplars, with illustrations, see Ch 4 Facility Concepts.

## **Overall School Organization Diagram**

Workshop participants developed a concept diagram for a PK-5 school for 1030 students, as that was the most preferred grade grouping and school enrollment size.

It featured the following essential characteristics: **OVERALL** 

- Possibly create separate entries for PK-2 and 3-5 portions of the school
- Possibly ease access and express the importance of community use of the building through a separate entry to a public zone
- Create distinct zones for Grades PK-2 and 3-5
- Pre-K to be related to K-2 but distinct
- Create reasonable passage from one to the other to support:

- Teacher collaboration in shared Teacher Planning Centers
- Movement of specialist educators who might be serving all grades

#### SECURE ZONE

#### Easily accessible from Both PK-2 and 3-5

- Music
- Art
- English as a Second Language spaces
- Media Center/ Learning Commons
- Special Education substantially separate spaces

#### Separate in each

- Small Learning Communities
  - o Core learning spaces
  - o Breakout/Collaboration/Extended Learning Areas
  - o Maker spaces
  - Teacher Collaboration Centers
  - o Presentation Space
- Administration Office
- Guidance Office
- Special Education inclusion spaces
- Toilets
  - o In Classrooms in lower grades
  - In Small Learning Communities in upper grades
- Outdoor learning spaces

#### COMMUNITY USE ZONE

- Gatekeeper/security office as entry to Secure Zones
- Cafeteria/Commons/Food Courts:
  - Multiple food source stations
  - o Flow through
  - o Stage
- Gymnasiums
- Stage in Cafeteria(s)

#### **EXTERIOR FUNCTIONS**

Parking

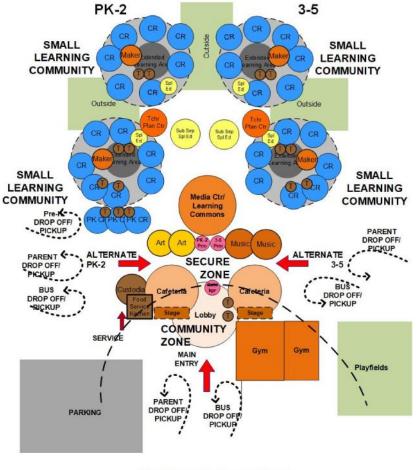


## Ch 2 Executive Summary



- o Visitors/Community
- o Faculty and staff
- Drop off/pick up
  - Bus drop off/pick up separate from parent drop off/pick up
  - Separate for Pre-Kindergarten
  - Alternate: separate for Grades K-2 and Grades 3-5
- Playfields accessible from Gym

The overall diagram is shown here:



NORTHBRIDGE PK-5 SCHOOL Relationship concept. Not all spaces shown. Number of Classrooms not determined.





# **Educational Vision**

## INTRODUCTION

This Educational Vision reflects the work of a Visioning Team; approximately 30 teachers, administrators, students, parents, community, and school committee members, plus the architects and owner's project manager. Created in three days of intense facilitated workshops it is intended to guide the long-term development of both education and facilities for the future elementary schools.

Much of the work was conducted by Table Teams, small groupings of six participants each. They brainstormed, debated, and attempted to reach consensus on most of the defining issues. Each Table Team had educators, students, parents, and community members evenly distributed to the greatest extent possible.

## VISION COMPONENTS

The Educational Vision for the Northbridge elementary schools is described here through several components:

- Guiding Principles establish broad parameters for educational delivery, school structure, and facilities
- School Transformation + Development Map (ST+DM © 2017 Frank Locker Inc) relates educational delivery and facilities to national practices, both today and projected into the future
- Most Important Concepts for the Future identifies the best and next practices most important for future teaching and learning
- Learning Modalities identifies the most effective and appropriate ways for teachers to reach students with curriculum delivery
- Innovative Educational Deliveries focuses on the appropriateness of adopting new and challenging educational practices
- School Structure defines preferred approaches to the overall relationships of people and programs, including grade groupings and school enrollment size



## **GUIDING PRINCIPLES**

The *Guiding Principles* presented here were created to express the values, beliefs, and concepts developed by the educator and community Visioning Teams which examined educational trends, best practices, and issues affecting the delivery of 21<sup>st</sup> century education. These *Guiding Principles* present the essence of that inquiry. They are not policy but they address the overarching themes identified by participants. They may serve as a foundation for the future schools. As such, they are intended to form the basis of future educational delivery and facilities planning. Staff professional development is crucial to the successful implementation of the educational concepts outlined here.

#### The Guiding Principles are:

#### **Overarching Principles**

- This future-oriented Educational Vision incorporates a number of innovative best and next educational practices already in operation in classrooms in the Northbridge elementary schools. Extend those practices
- Create a common understanding of this Educational Vision among administrators, faculty, parents, and students to continue shifting the educational model from one that is fairly traditional to one that is more transformed
- Prepare students for success in the 21st century, an emerging world of global competition, uncertain employment prospects, infinite access to information, and rapid change in technology
- Teach 21st century skills at the same time as traditional content
- Build relationships with students, families, and communities through school structure and programs
- Aspire beyond the Common Core and beyond the Massachusetts Department of Elementary and Secondary Education (DESE) guidelines to do what is best for student learning, and to instill a life-long sense of wonder and purpose. Create independent, life-long learners
- Establish a program of staff Professional Development to support the educational deliveries outlined here

## **Educational Delivery**

Educational Delivery addresses overarching themes required to provide a 21st century high-performing educational experience for all elementary students.

#### INSTRUCTIONAL MODELS

- Develop a social/emotional learning initiative
- Employ project-based learning on a regular basis
- Group students in small learning teams to differentiate instruction and foster communication, collaboration, and improved social skills, and foster differentiated instruction
- Organize teachers in teaching teams
  - Explore multi-grade instruction
  - Teachers "teaming," sharing students but separately teaching curriculum specialties, particularly in the upper grades
- Explore thematic learning, allowing student/parent choice of interest area, with the complete curriculum wrapped around that interest
- Create a school and community culture that values flexibility for change
- Position students to learn 21<sup>st</sup> century skills, especially the "four C's", collaboration, communication, creativity, and critical thinking, while simultaneously meeting standard curriculum goals
- Pilot innovative deliveries such as making things to learn for planned future large scale implementation

#### **TECHNOLOGY INTEGRATION**

Our world is dependent on technology implementation in all aspects of life. Students must be provided with the technological skills and knowledge which will enable them to function successfully in a global context. Technology should include:

- Recognize computer technology can be more effective than a teacher in recognizing individual students' learning patterns and style preferences; utilize computers as part of a strategic initiative to personalize learning
- Wireless capability in all spaces in future school building(s)
- Deploy mobile devices in lieu of desktop devices

## Ch 3 Educational Vision

 Create places and learning goals for students to learn using new technology, including documentation of oral presentations, and the production of videos, story boards, and apps

Technology must not be viewed as a curriculum add-on, but, rather as an effective tool to be utilized in meaningful instruction that is relevant and rigorous.

## **Educational Structure**

Educational Structure establishes the organizational patterns necessary to group students and teachers in the most effective ways.

#### ORGANIZATION

- Advocate for the PK-5, 1030 student school Option, as it will offer more effective, efficient operations, increased curriculum articulation, and stronger relationships among both teachers and students
- Position educators to better know their students through the size and strategic placement of learning spaces

#### RELATIONSHIPS

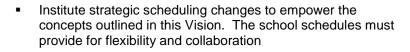
- Organize school as Small Learning Communities to support formation of relationships
- Support teachers who wish to loop with their students
- Foster student collaboration to build social and communication skills, and the ability to work with others
- Create opportunities for students to grow socially and emotionally while working with others in classroom assignments

#### CURRICULUM

- Build 21<sup>st</sup> century skills while meeting traditional curriculum goals
- Create regular opportunities for students to improve their oral communication skills

#### SCHEDULES

Create common planning time for all teachers



## Facility Implications

- The preferred planning Option is the 1030 student PK-5 school
- Design facilities to be flexible, able to support multiple learning modalities, teaching styles, and program change over time
- Empower the possibility of multi-grade learning through connections between Classrooms
- Develop Small Learning Communities, learning spaces arranged in clusters
- Select furniture that supports collaboration, different learning modalities, and is substantiated by brain research
- Create Teacher Planning Centers to foster collaboration, interdisciplinary teaching, and greater knowing of students by teachers
- Create building plans that offer security and safety despite constant visitors, many of whom will be active participants in student learning
- Create spaces that support more "hands-on" learning, including STEM and STEAM labs and Maker Spaces
- Integrate outdoor learning and recreation spaces in the building designs
- Create presentation spaces to honor and encourage frequent student and expert visitor presentations
- Minimize circulation spaces that do not also offer opportunities for learning, such as Breakout/ Collaboration small group spaces





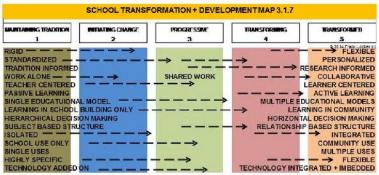


## SCHOOL TRANSFORMATION + DEVELOPMENT MAP

Workshop participants, working in three-person Micro Teams, used the School Transformation + Development Map to evaluate the elementary schools' current educational delivery and facilities, and to project the desired future for both.

The ST+DM expresses the evolutionary shift in education in great detail, chronicling educational practices and facility design. Schools today are in different points of evolution, and many schools expect to be in different points of evolution in the long-term future. The ST+DM characterizes schools and facilities on a 1 through 5 basis, with 1 as the most traditional category, and 5 as the most transformed.

#### SCHOOL TRANSFORMATION + DEVELOPMENT MAP

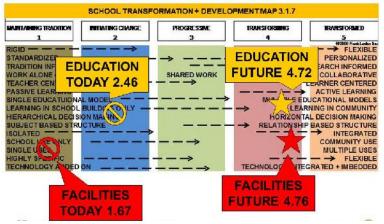


Workshop participants worked in Micro Teams to review the multiple educational practices and facilities concepts in the School Transformation + Development Map. They scored their schools in the following categories:

- Educational Delivery Today
- Facilities Today
- Future Educational Delivery
- Future Facilities

This average score gives a general understanding of current and desired future practices and facilities. The average overall score of all Micro Teams was:

#### SCHOOL TRANSFORMATION + Overall average DEVELOPMENT MAP



The overall scoring of all Micro Teams was relatively close for Education and Facilities, both Now and the Future, indicating a high degree of consensus among workshop participants.

The most important lessons from the ST+DM for the immediate future come from the difference between today's situation and the desired future. Overall, the Visioning Team desires significant changes for education, 2-1/4 columns out of five. Desired facilities changes are even greater, three columns.

For education this means that a program of staff professional development needs to be implemented, starting soon. For facilities, it means that facilities will not look like traditional school. In both cases dialogue with the community needs to be engaged in order to share and receive comment and guidance on the exciting concepts proposed for the future schools.

# MOST IMPORTANT CONCEPTS FOR THE FUTURE

Visioning Team members were asked to identify the most important issues for education and facilities in future Northbridge elementary schools.

The results are outlined here, in order of importance based on frequency of citing:

#### EDUCATION

- Emotional Intelligence
- Project Based Learning
- STEM/ STEAM programs

In Table Team discussions they added:

- Creating Innovators
- Multiple Intelligences

#### FACILITIES

- Flexible, Varied, Brain-Based Furniture
- Small Learning Communities
- Empower Student Collaboration

Note that these concepts, collectively, call for a major shift in both educational deliveries and the facilities that support them. Curriculum requirements and standards will remain, but the nature of teacher roles and student activities will change.

## LEARNING MODALITIES

Visioning Team members considered 21 learning modalities, ranging from traditional lecturing and direct teaching to independent study, and ranked them in order of appropriateness.

The most commonly cited most effective modalities, in order of importance, are:

- Small Group Work/Student Collaboration
- Project-Based Learning



- Interdisciplinary Learning
- Social/Emotional Learning
- Teacher Teams/ Synchronous Collaboration
- Integrate Arts in Core

The most commonly cited as least effective modalities were:

- Lecture
- Internships
- Desktop technology

## INNOVATIVE EDUCATIONAL DELIVERIES

Participants in the Educators Workshop explored three innovative educational practices and assessed their viability for adoption at the elementary schools. Their thoughts were:

- Project Based Learning:
  - Enthusiastically supported by the one Table Team that explored it
  - On the 10 point Engagement Scale, Project Based Learning was ranked 11
- Making Things to Learn:
  - Supported with enthusiasm by both Table Teams that explored it
  - On the 10 point Engagement Scale, Making Things was ranked 10by both teams
- Mastery Learning/Adaptive Learning:
  - Cautious interest by the one Table Team that explored it

## SCHOOL STRUCTURE Internal Organization

Visioning Team members reflected on model school organizational structures, and determined these to be the most and least appropriate structures for the elementary years:



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#### Most appropriate:

- Ideally teachers would be paired, working in adjacent, linked classrooms, sometimes teaching alone, other times swapping specialties and at other times teaching simultaneously
- Lower Grades:
  - Choice of looping, traditional, or multi-grade
  - Multi-age classroom groupings
- Upper Grades:
  - o Thematic Vertical
  - o Multi-grade
  - o Looping
  - Teachers "teaming," sharing students but separately teaching curriculum specialties

#### Least appropriate:

Synchronous teacher teaming, sharing students in real time

These most favored organizational structures call for the nature of school and role of teachers to be significantly changed.

All preferred organizations would have teachers team teaching in various ways.

Continued dialogues among educators need to start district-wide as soon as possible, extending to parents and students, to explore, share, and deploy these concepts.

## School Structure

Visioning participants identified these as the developmental breaks in the PK-12 spectrum.

- PK K 1 2/3 4 5/6 7 8/9 10 11 12
- PK K/1 2/3 4 5/6 7 8/9 10 11 12
- PK/K 1/2 3/4 5/6 7 8/9 10 11 12
- PK/K 1 2/3 4 5:6 7 8:9 10 11 12

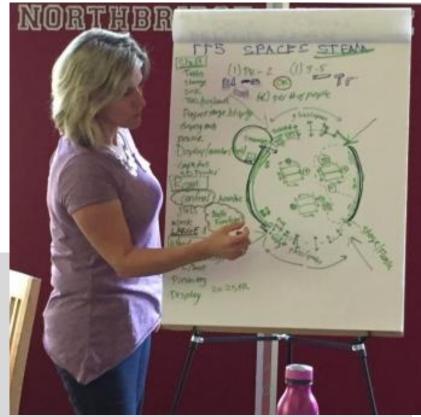
Participants identified preferred grade groupings and enrollment size to best serve the elementary years. All four Table Teams endorsed the 1030 student, PK-5 school option.

This strong sanction considers these issues:

- There is great concern for the number of transitions a student has to make in a PK-12 career
- Longer durations in a building build stronger relationships between teachers and students, and between teachers and families
- The larger building is recognized as offering greater operational efficiencies and less annual cost
- The full continuity of elementary grades in the PK-5 building will offer greater curriculum delivery continuity and consistency
  - Including Special Education services
- Simplified transportation
- Brings facility and program delivery equity to all Northbridge Public Schools students







# Facility Concepts

## INTRODUCTION

The Visioning Team developed concepts for Northbridge's elementary schools' future facilities. The concepts are defined through:

- Key Words, expressing key characteristics of future education and facilities
- Places for Learning, detailed descriptions of the learning environments
- Defined Spaces, expressing desired characteristics of the most important non-classroom spaces
- Future Furniture showing favored furniture selections
- **Community + Family**, outlining concepts for greater service to families and the community
- Overall School Organization Diagram, shows essential program space relationships for a co-located high/middle school

## PLACES FOR LEARNING

The Visioning Team reviewed thirteen exemplar schools from the USA, the United Kingdom, and Australia. Working in Table Teams they ranked the schools for appropriateness for the future teaching and learning at Northbridge elementary schools.

#### MOST APPROPRIATE

Several exemplars were highly favored, selected by multiple Table Teams as most appropriate. They were:

- Forest Avenue K-2 Center (cited by 3 of 3 Table Teams)
- New Albany Grade 1-8 School (cited by 2 of 3 Table Teams)

#### LEAST APPROPRIATE

One exemplar was deemed Least Appropriate. Significantly this choice represented the most traditional educational deliveries, and is most similar to the current elementary schools.

Minges Brook Elementary School, the most traditional of the choices, was cited by all 3 Table Teams as Least Appropriate.

#### **ESSENTIAL CHARACTERISTICS**

Most of the schools cited as most appropriate shared these characteristics:

- Learning spaces arranged as Small Learning Communities
- Classrooms are components of "suites of spaces," supported by other spaces immediately adjacent
- Circulation to be used for learning
- Classrooms are to be flexible, interconnected, and supported by auxiliary spaces including Extended Learning/ Collaboration/ Breakout/ Commons spaces
- Interdisciplinary possibilities
- Open, shared presentation areas, appropriate for student presentations and ad-hoc meetings
- Variety of furnishings, offering students and teachers more choices in supporting learning
- Possibility of student groups working in multiple places under the guidance of their teacher
- Teacher collaboration supported by the facilities, through double sized Classrooms, connections between Classrooms and strategic placement of related functions
- Teacher Planning Centers to support teacher collaboration and sense of community

## Most Appropriate Planning Concepts

Here are representative photos, descriptions, and Table Team comments for the most commonly cited exemplar schools.

#### FOREST AVENUE K-2 CENTER Cited by 3 of 3 Table Teams

Featuring:

- Classrooms arranged around a shared Breakout/Commons/Tutorial/project space
- Stage in this space
- Barn door connections between classrooms
- Teacher Planning Center
- Glass between rooms gives teachers overview and control no matter where students are learning



Cited for:

- Community feel
- Teacher planning
- Platform for presentations and performances
- Flexibility of size/configuration of classrooms
- Access to commons/presentation space
- Shared access to resource "rich" spaces
- PK/K individual bathrooms; 1-5 group bathrooms
- Gender neutral bathrooms in SLC
- Equity of access to outdoor space
- SLC: teacher collaboration/planning space
- Universal/ADA playgrounds "inclusive"
- Transparency of/through spaces
- Location of playgrounds to core and classrooms relating to scheduling
- Variety of use of space
- Like teacher center
- Like suite idea: 100 kids, 4-5 teachers
- Successful outcomes, proven

#### **NEW ALBANY GRADE 1-8 SCHOOL**

#### Cited by 2 of 3 Table Teams

Featuring:

- Large number of Classrooms (12) arranged in Small Learning Communities (SLCs)
- Classrooms arranged around a Breakout/Commons space
- Classrooms are not identical



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- Varieties of folding walls between some of them
- Many have garage doors to the Breakout/Commons space
- Classroom positioning is not identical
  - Some are central and highly connected to the Breakout/Commons space
  - Others are at the edges, less connected
- Teacher Planning Center located in a strategic position at the center of each SLC
- Small, low Stage located in a paramount position in each SLC
- Conference/Small Group Room located between the Stage and Teacher Planning Center







Table Team comments:

- Community feel
- Individual classrooms with some folding walls
- Multiple learning environments
- Flexibility of size/configuration of classrooms
- Access to commons/presentation space
- Shared access to resource "rich' spaces
- PK/K individual bathrooms; 1-5 group bathrooms
- Gender neutral bathrooms in SLC
- Equity of access to outdoor space
- SLC: teacher collaboration/planning space
- Universal/ADA playgrounds "inclusive"
- Transparency of/through spaces
- Location of playgrounds to core and classrooms relating to scheduling

## Least Appropriate Planning Concept

## MINGES BROOK ELEMENTARY SCHOOL

Cited by 3 of 3 Table Teams

Featuring:

- Challenging separations between learning spaces
- Isolated Classrooms
- No central focus



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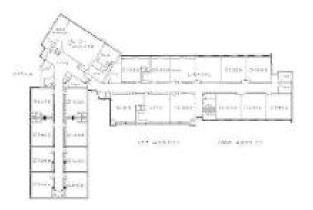


Table Team comments included:

- Too traditional
- Too stark
- Where are the resources?
- What we have now
- Why no collaboration/teacher alcove
- Why no visibility to rooms
- Why administration not at front entry for security
- Not a lot of opportunity for collaboration
- Self-contained with no sharing

## DEFINED SPACES

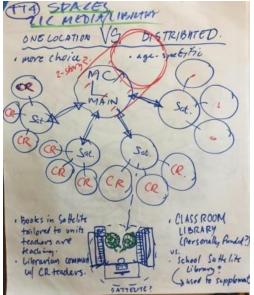
Essential non-classroom spaces were given consideration by the Table Teams. The outlines below represent the most salient concepts.

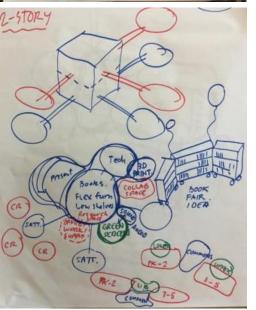
# 21<sup>st</sup> CENTURY MEDIA CENTER/ LEARNING COMMONS Table Team 1

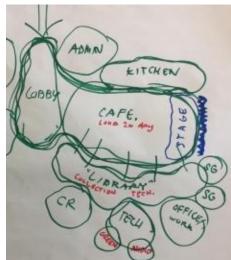
The concept included:

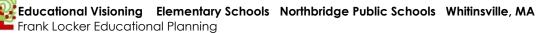
- If one location: more choice
- If distributed, age-specific
  - Books in satellite tailored to units teachers are teaching
  - Librarian communicates with classroom teachers

 Classroom libraries usually personally funded, replaced by satellite library











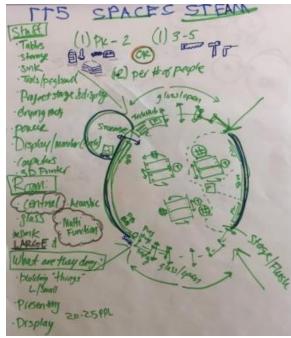
#### SUPPORTING APPLIED/ACTIVE LEARNING

such as Project-Based Learning, STEM, STEAM, Making Things to Learn, etc

#### Table Team 5

The concept included:

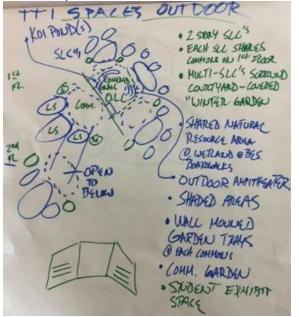
- One for PK-2
- One for 3-5



#### OTHER: OUTDOOR SPACES

#### Table Team 1

The concept included:



## FUTURE FURNITURE

A breakout group of the Visioning Team participants reviewed and ranked Classroom and Breakout/Commons furniture options for the future.

Their most favored selections are shown on the next page.





#### **#21, Instruction Modules**



#25, Flexible Movable Desks





**#23**, Varied Types of Student Controlled Furniture









## COMMUNITY + FAMILY

Workshop participants feel these facility strategies will greatly enhance parent and community connection to and use of the school:: INTENT

- Senior/adult learning
- Multi-generational mentoring
- Parent education and support
- Parent resources
- Pre-K parent/child play opportunities
- Recreational use
- Third party organizations

#### SPACE NEEDS

- Multi-use space
  - o Technology
  - Seating: formal/informal
  - Varying group size
- Classroom with short term child care
- Behavioral health sciences
- Inviting, close to entry
- Support group meeting space
- Art exhibits
- Accessible
- Adult bathrooms

## OVERALL SCHOOL ORGANIZATION DIAGRAM

Workshop participants guided Frank Locker in drawing an overall relationship planning diagram for the proposed 1030 student PK-5 elementary school Option, as that was the most favored planning option. Major functions were drawn as bubbles, in relative size, and in relative positioning. The concept featured the following essential characteristics:

#### OVERALL

- Possibly create separate entries for PK-2 and 3-5 portions of the school
- Possibly ease access and express the importance of community use of the building through a separate entry to a public zone
- Create distinct zones for Grades PK-2 and 3-5
- Pre-K to be related to K-2 but distinct
- - Create reasonable passage from one to the other to support:
    - Teacher collaboration in shared Teacher Planning Centers
    - Movement of specialist educators who might be serving all grades

#### SECURE ZONE

#### Easily accessible from Both PK-2 and 3-5

- Music
- Art
- English as a Second Language spaces
- Media Center/ Learning Commons
- Special Education substantially separate spaces

#### Separate in each

- Small Learning Communities
  - Core learning spaces
  - o Breakout/Collaboration/Extended Learning Areas
  - Maker spaces
  - o Teacher Collaboration Centers
  - Presentation Space
- Administration Office
- Guidance Office
- Special Education inclusion spaces
- Toilets
  - o In Classrooms in lower grades
  - o In Small Learning Communities in upper grades
- Outdoor learning spaces

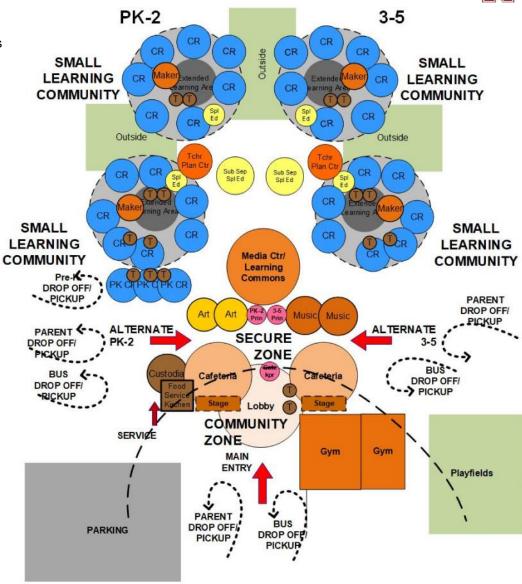
#### COMMUNITY USE ZONE

- Gatekeeper/security office as entry to Secure Zones
  - Cafeteria/Commons/Food Courts:
    - o Multiple food source stations
    - Flow through
    - o Stage
- Gymnasiums
- Stage in Cafeteria(s)

#### **EXTERIOR FUNCTIONS**

- Parking
  - Visitors/Community
  - Faculty and staff
- Drop off/pick up
  - Bus drop off/pick up separate from parent drop off/pick up
  - o Separate for Pre-Kindergarten
  - Alternate: separate for Grades K-2 and Grades 3-5
- Playfields accessible from Gym

The overall diagram is shown here:



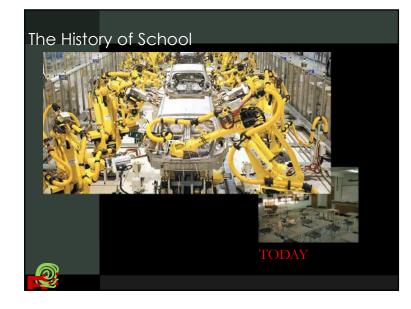
NORTHBRIDGE PK-5 SCHOOL Relationship concept. Not all spaces shown. Number of Classrooms not determined.

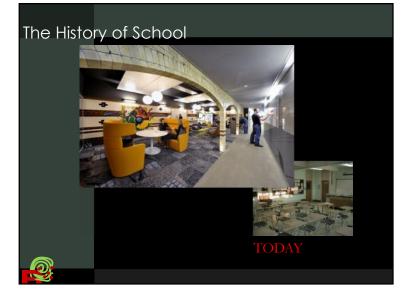


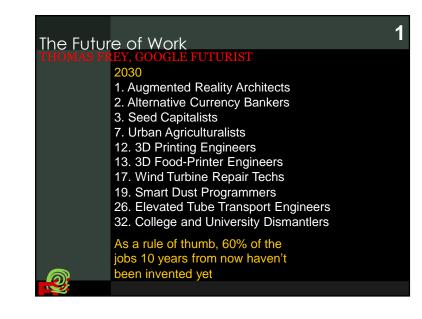










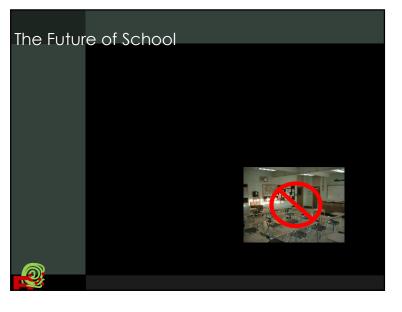






(By the time our students are 40 years old, they will have had nine jobs)

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## 21<sup>st</sup> Century Learning: Future of Schools



#### 21<sup>st</sup> Century Learning

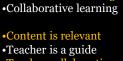
•Focus on teaching efficiency •Producing workers for an industrial age Content knowledge •"Broadcast" teaching Students work alone

#### Content is abstracted

 $\square$ 

•Teacher is holder of knowledge •Teacher works alone •Subjects taught separately

•Mostly direct instruction + papers



•Focus on learning effectiveness

•Producing citizens for a post-

•Relationships + skills

Personalized learning

industrial age

2

•Teacher collaboration + teams •Integrated/interdisciplinary learning •Problem-based/project-based learning

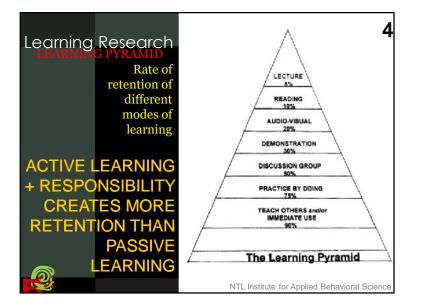


# Measures of Success? How to we know we are doing the right thing

What do students want to talk about at the dinner table every night?

<u></u>

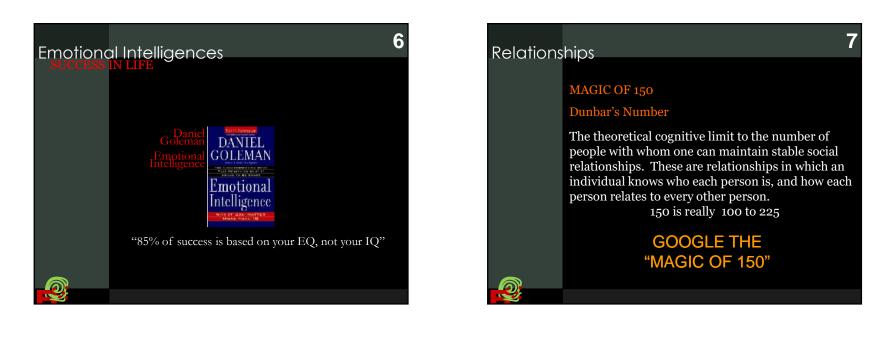
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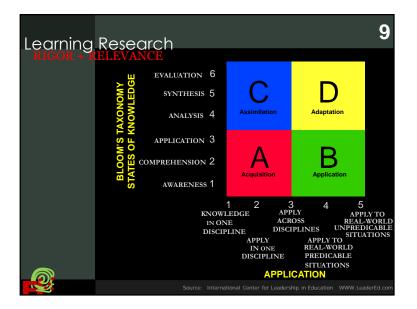


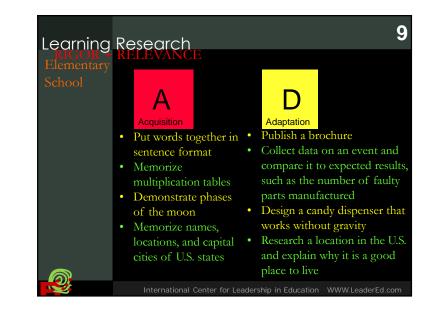


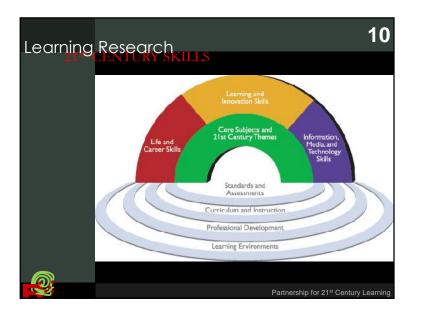


Defining 21<sup>st</sup> Century Learning BLENDED LEARNING; FLIP THE CLASSROOM

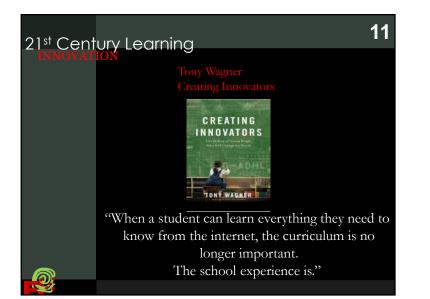


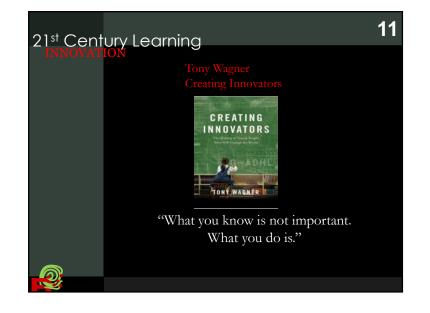


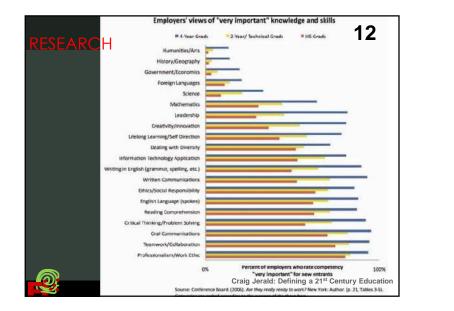


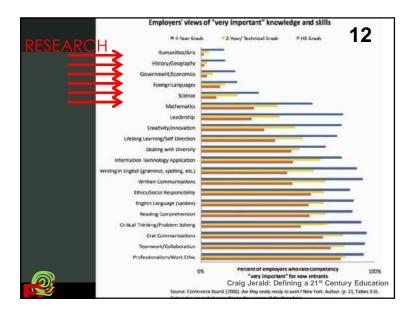




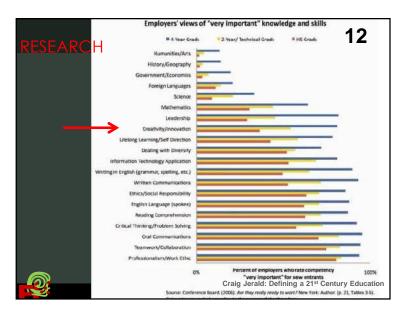


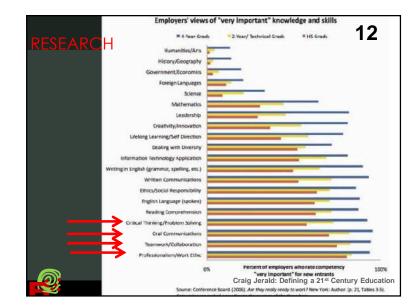






#### Ch 5.4 21st Century Schools Presentation





## Learning Research

There is ample evidence that PBL is an effective method for teaching students complex processes and procedures such as planning, communicating, problem solving, and decision making.

15



There is some evidence that PBL, in comparison to other instructional methods, has value for enhancing the quality of students' learning in subject matter areas, leading to the tentative claim that learning higher-level cognitive skills via PBL is associated with increased capability on the part of students for applying that learning in novel, problem solving contexts.

A REVIEW OF RESEARCH ON PROJECT-BASED LEARNING John W. Thomas, Ph. D, 200

# Africa Discovery MEMORIAL SCHOOL

#### 21<sup>st</sup> Century Skills in Action: Manchester Memorial School, Gr. 6

A social studies unit on Africa was used to teach global awareness, technology skills, music and art at this Manchester-Essex school. Each student chose an African country to study in depth, did their research online, created their final projects using Powerpoint and presented them using SMART Boards. While this project was ongoing, students discussed and constructed African masks in art class, and learned about and practiced African drumming in Music class. More on this program: http://www.doe.mass.edu/edtech/practices /manchester/intro.htm. 21<sup>st</sup> century skills used in this project: globa wareness, creativity, technology, ollaboration, communication, problem olving

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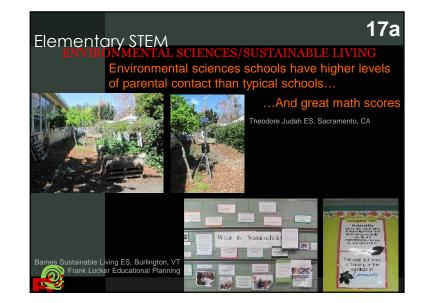


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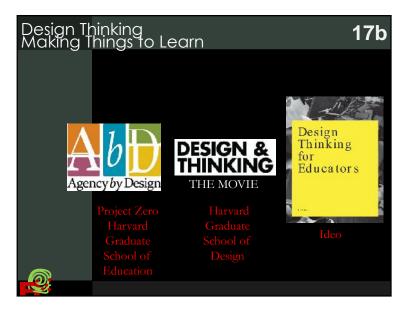
Massachusetts Dept Education 21st Century Skills Task Force







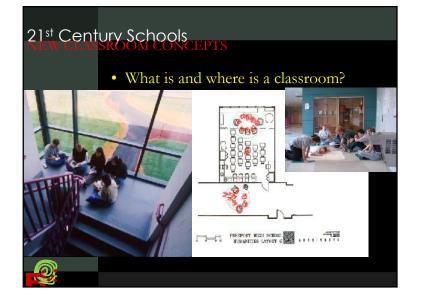


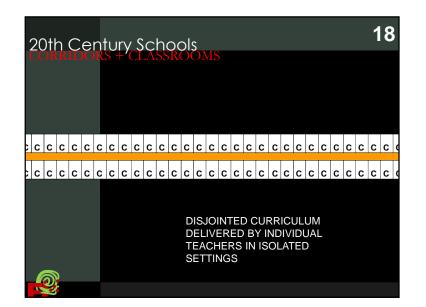










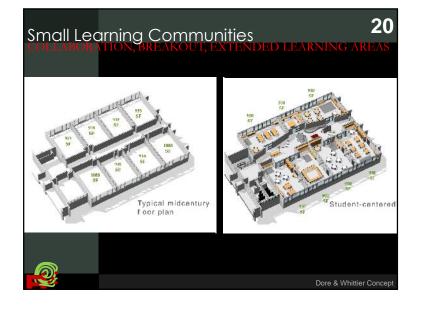


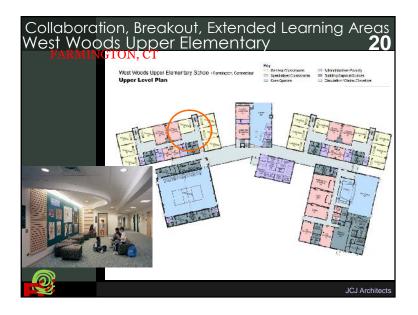








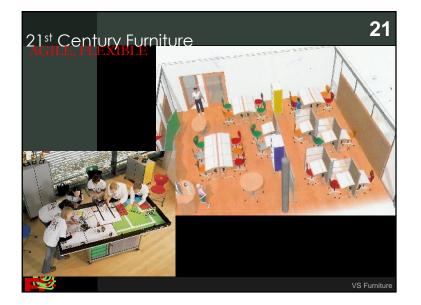






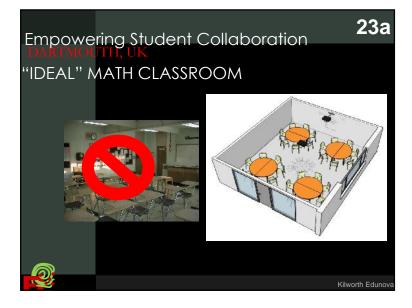










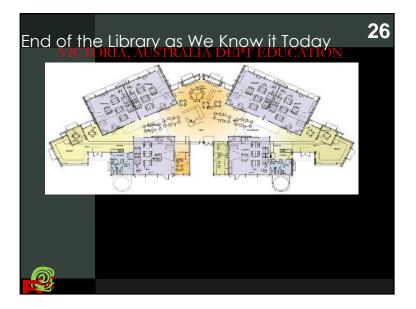


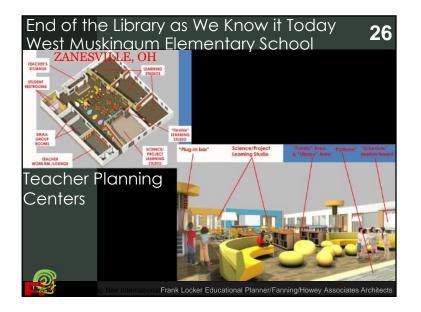








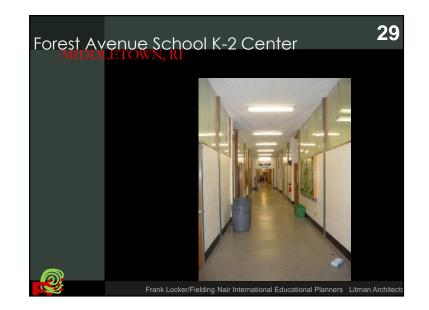






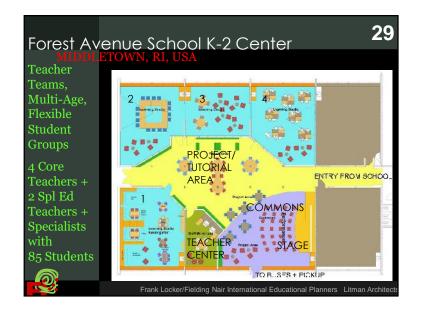






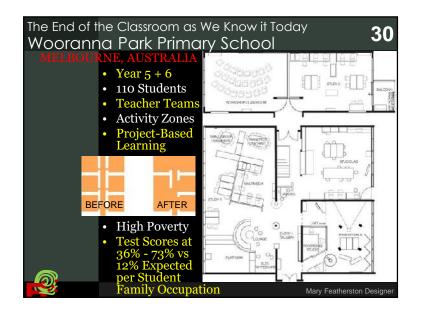










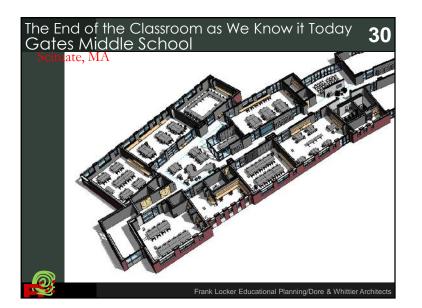


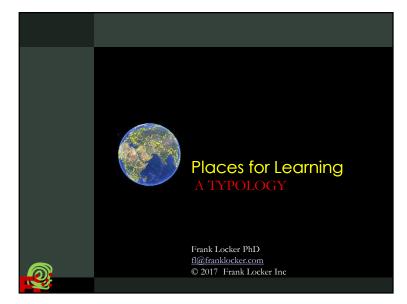




# Image: Second of the Classroom as We Know it Today 30 Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of the Classroom as We Know it Today Image: Second of today Image: Second of the Classroom as We Know it Today Image: Second of today







## Places for Learning- A Typology ORGANIZATION From: Most traditional Teachers work alone Students learn in class Isolated subjects Teach + test learning Schedule controls time Project-based learning Students + teachers Control time

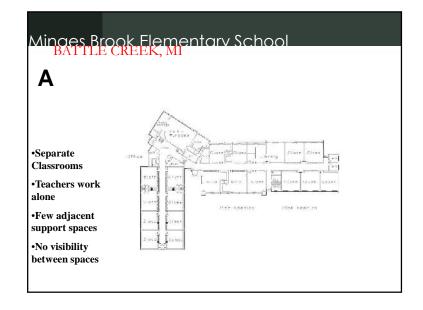
### Places for Learning- A Typology

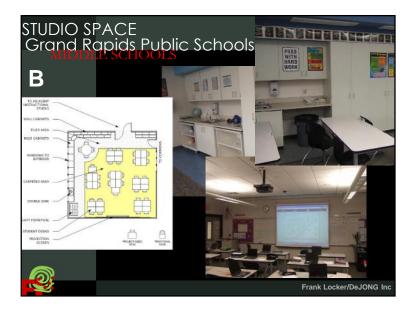
IDENTIFY YOUR GRADE LEVEL FOCUS, IF ANY:

#### RANK

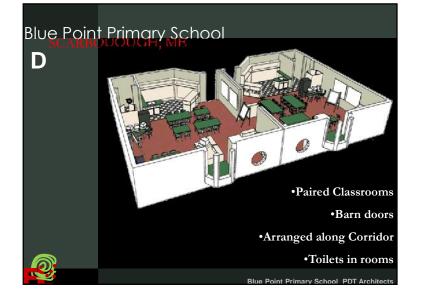
•Work with your table team mates. Identify:

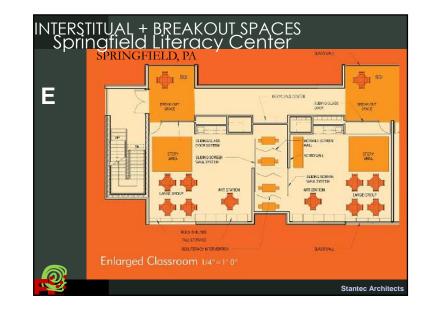
- •The 3 most appropriate exemplars.
  - Why? What qualities did you admire?
- •The 1 least appropriate.
  - Why? What qualities did you dislike?









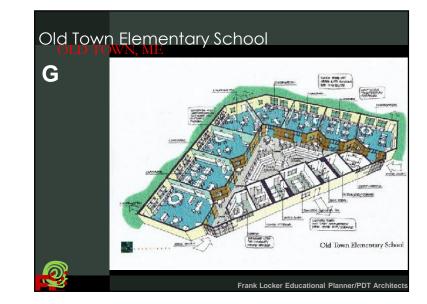


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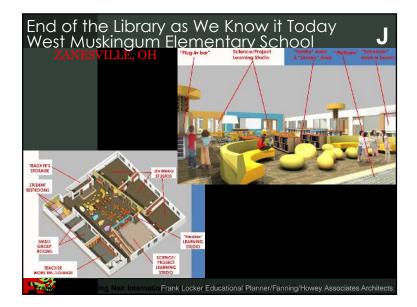


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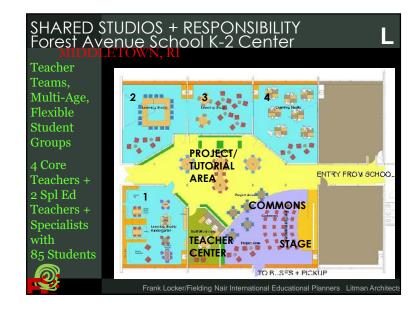






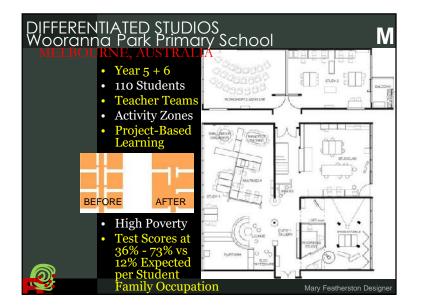




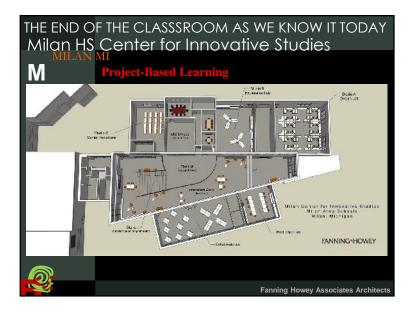






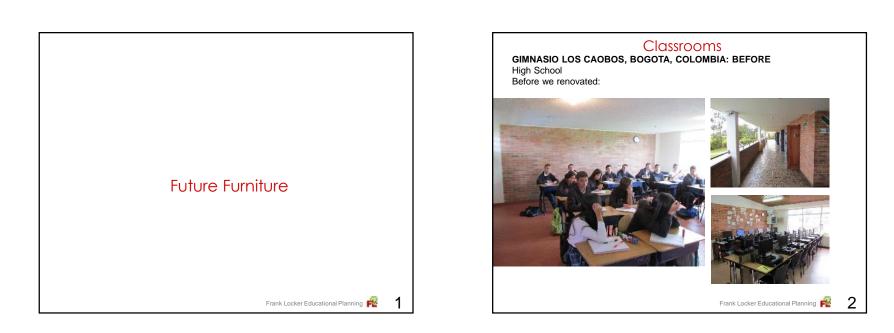




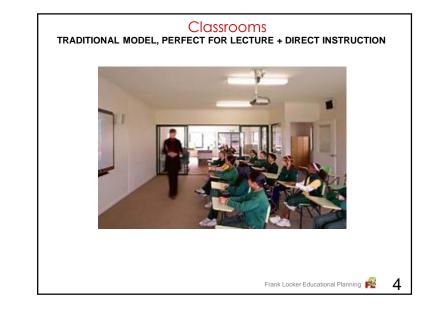


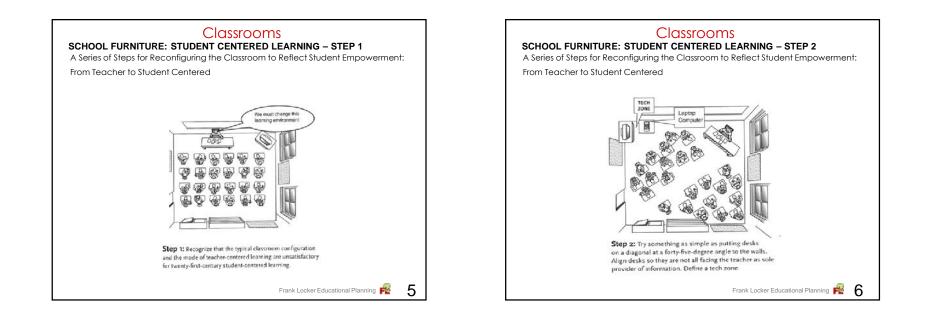


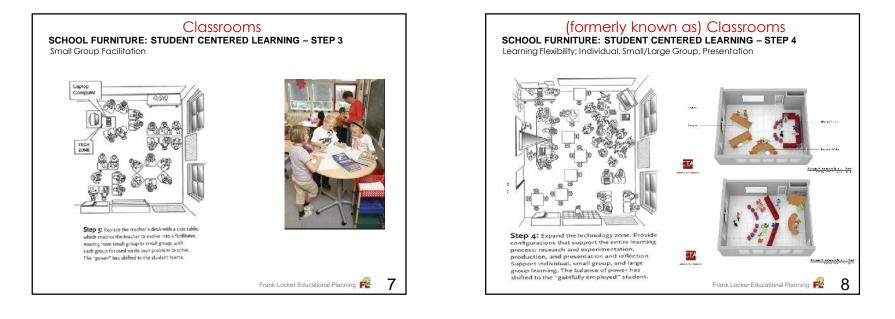
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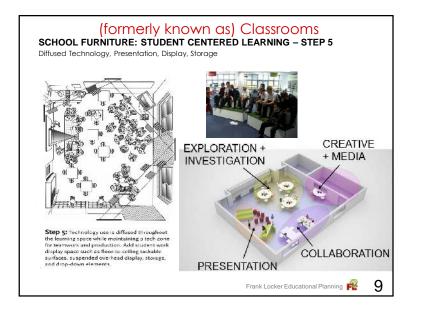


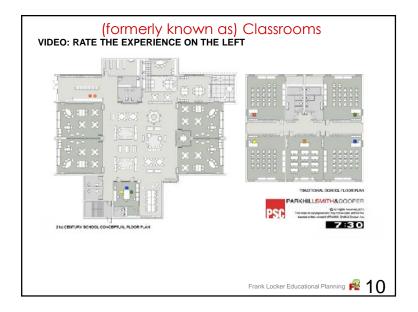






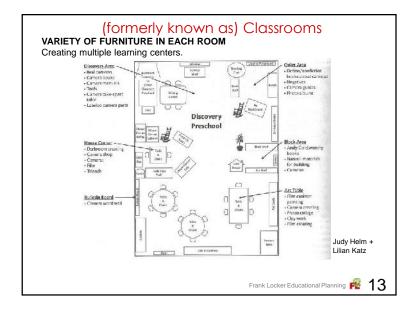






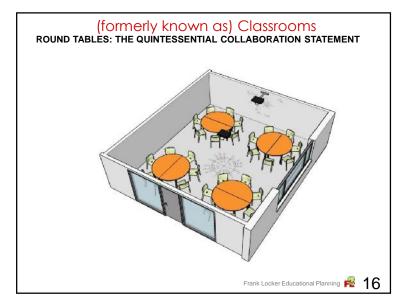










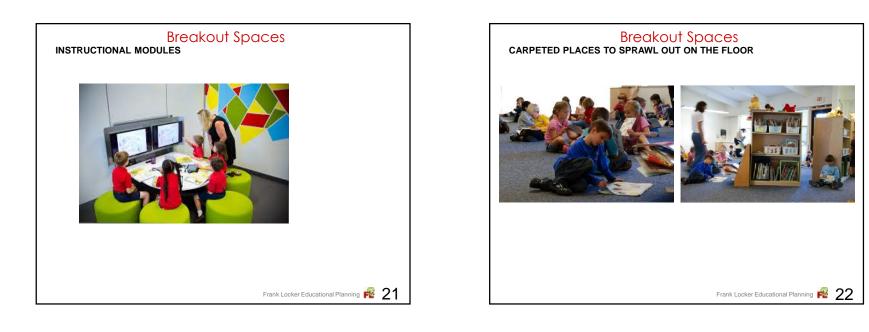












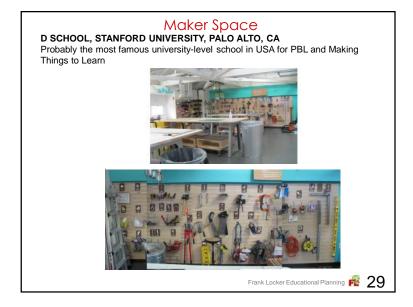




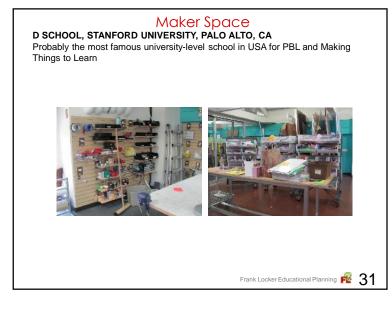












					SCHOOL TRAI	<b>NSFC</b>	<b>DRMATION + DEVEL</b>	_0	PN	IENT MAP 3.1.7												
		Name(s)								School (District)			8	Col 1 = 1 point Col 2 = 2 points Col 3 = 3 points								
		MAINTAINING TRADITION			INITIATING CHANGE		PROGRESSIVE					TRANSFORMED			oints oints							
		I			Ζ	J	3			@ 2017 Frank   o	cker Inc	J fl@franklocker.com	l									
		INCLUDES PRACTICES BELOW	w		INCLUDES PRACTICES BELOW		INCLUDES PRACTICES BELOW			INCLUDES PRACTICES BELOW		INCLUDES PRACTICES BELOW										
		EDUCATIONAL DELIVERY	Ν	F	EDUCATIONAL DELIVERY	NF	EDUCATIONAL DELIVERY	Ν	F	EDUCATIONAL DELIVERY	NF	EDUCATIONAL DELIVERY	NF	NOW	FUTURE							
		ALL GRADES			ALL GRADES		ALL GRADES			ALL GRADES		ALL GRADES										
		INSTRUCTION			INSTRUCTION		INSTRUCTION			INSTRUCTION		INSTRUCTION										
1	LEARNING THEME	No focused learning theme/expression			-		Is w/ little impact on instruction			Thematic curricular component w/i school		Choice thematic, magnet school										
2	EXHIBITIONS	Student work is rarely actively expressed outside Classroom			Student work occasionally expressed in Corridors etc		Students present work in regular exhibitions			Exhibitions feature outside "experts"		Exhibitions recorded for portfolios + resource										
3	DIFFEREN- CES	Little or no recognition of learning differences among students except "tracking"			As Column 1, but multiple intelligences/learning styles recognized		Multiple intelligences + learning styles h	nonoi	red th	ru differentiated instruction; no tracking		Mult int+ learning styles used as a basis of student social learning										
4	PERSONAL LEARNING	"Broadcast" teaching: same to all students in the classroom			Occasional differentiated instruction in assignments, assessments		Differentiated ins	struct	tion as	s basic approach		Personalized learning plans; student initiated projects										
5	COLLAB- ORATION	Students learn alone			Occasional 2 person teams		Occasional larger teams			Students regularly work in larger teams		Students learn 75% in teams										
6	TEACHER TEAMS	Self contained classroom teaching exclusively			Common planning to coordinate curriculum/know students		Teachers swap classes for sharing instruction but do not teach together			Teachers occasionally integrate curriculum by teaching together in same place + same time		Teachers regularly teach synchronously in coordinated teams										
7	OWNERSHIP	Most teachers have "own" classrooms; others on carts			Teachers share "own" Classrooms with specialist teachers		Small groups of teachers share	e small # of Classrooms based on schedule				Teachers control suite of spaces with corollary teachers										
8	AWARENESS	Students know very little about activities in neighboring classrooms			Students aware of other Classrooms through occasional sharing		Learning spans severa	il cla	ssroo	ms and related spaces		Learning takes place in coordinated manner in variety of shared spaces										
9	TECH- NOLOGY	Virtually no computer use			Computers seen as sophisticated writing/math tools		Computers also used for learning programs +/or web research			Computers are common in learning		Learning programs, web, virtual access are inseparable from learning										
10	DISPLAY	Best student work is displayed on bulletin boards			All student work on bulletin b	oards, but	trumped by sports in Lobbies			Each student's work is presented + critiqued		Building is rich with 2D + 3D display of student projects			= 3 points = 4 points							
11	DELIVERY	Almost exclusive direct instruction			Predominantly direct instruction w/ some discussion		Direct instruction with regular group discussion			Direct instruction, group discussion, + some problem solving		Project-based learning, discussions, + "just-in-time" direct instruction										
12	INTEGRA- TION	Core instruction subject based; not all "exploratories" taught			Exploratories (Art, Music, PE, Family) taught separate from non-integrated core		Exploratory coordination with core learning mostly in extracurricular			Occasional integration of core learning +/or exploratories		Regular integrated learning includes core + exploratories										
13	LEARNING LOCATION	Learning exclusively in Classrooms, Labs			Learning exclusively ir	n Classroo	ms with some field trips			Occasional internships/service learning for some students		Regular internships/service learning are integral to learning										
14	WHO TEACHES				Teacher with aides do teaching		Students also teach in paired groups/study teams			Students teach each other in project based environment		Students regularly teach others; outside "experts" for projects										
15	MAKING LEARNING VISIBLE	No attempt to make learning visible; hidden behind corridor walls			Learning visible through occasional (mostly arts) entertainment/events		Celebratory events focusing on learning			Learning visible through authentic evaluations, educational "trophies"		Learning highly visible through all aspects of school life										
	1	CURRICULUM/ ASSESSMENT			CURRICULUM/ ASSESSMENT		CURRICULUM/ ASSESSMENT			CURRICULUM/ ASSESSMENT		CURRICULUM/ ASSESSMENT										
16	ASSESS- MENTS	Students poorly informed about standards for tests, papers, worksheets			Students informed about standards for tests, papers, worksheets		Students know rubrics for exhibitions, performances, displays + exams			Authentic teaching and learning: teach the "whole" child; 21st Cent Skills		Outside "experts" + students also assess with rubrics										

			SCHOOL TRAN	ISFO	<b>DRMATION + DEVE</b>	OP	MENT MAP 3.1.7				
		Name(s)	 				School (District)			Col 1 = 1 po	oint
		MAINTAINING TRADITION 1	INITIATING CHANGE		PROGRESSIVE 3		TRANSFORMING 4 © 2017 Frank Lo	cker Inc	TRANSFORMED 5	Col 2 = 2 po Col 3 = 3 po Col 4 = 4 po Col 5 = 5 po Average poin multi-column	oints oints oints iint value for
		INCLUDES PRACTICES BELOW	INCLUDES PRACTICES BELOW		INCLUDES PRACTICES BELOW		INCLUDES PRACTICES BELOW		INCLUDES PRACTICES BELOW	тот	
17	CURRIC FLEX	Delivery method and curriculum is rigid and uniform	Teachers have high discretion over delivery in Classrm w/ little oversight		Teachers team to review assessment data		Teachers team to review data, create units + lessons, + evaluate success		Teachers share data as part of regular school improvement		
18	SOCIAL/ EMOTIONL	Focus on academic learning exclusively	Guidance counselor responsible for a	ny social Classrooi	-emotional learning disconnected from		Social/emotional learning a regular part		Advisor-advisee + wellness courses for all		
19	21st CENT SKILLS	No recognition of 21st Century Skills			rate content area, like advisor-advisee		of curriculum Skills integrated in curiculum in random manner subject to teacher initiative		students Full integration of skills in all aspects of curriculum		
20	CURRIC- ULUM	Teaching objectives determined by items to be tested	Curriculum objectives traditional and/or standards driven		Curriculum mostly standards-based with	n occasio	nal inquiry + social skills; 21st Cent Skills		Objectives: inquiry based, social skills, project learning, critical thinking		
21	KNOW- LEDGE	Curriculum oriented to teachers teaching known answers		0	ccasional indeterminate answer assignme	nts			Issues that have no single answers; problem solving is the focus		
22	TEXT BOOKS	"Textbook is the curriculum", few or no connections among subjects/disciplines, sequential	Textbooks supplemented with original materials		Variety of curricular approaches, largely teacher determined		Variety of curricular approaches, largely district determined		Textbooks used only as data resource support local delivery decisions		
23	PACE + VEHICLES	District/state determine what all students learn + what learning vehicles will be	Teacher determines what all students learn + what learning vehicles will be		Teacher teams determine what students learn + what learning vehicles will be		Students have some determination in learning vehicles		Students determine own personalized learning plan within a rubric		
24	GRADING	Individual teacher responsible for determining policy + grades	School determines policy; teachers determine student grades		Grades established b	y team of	teachers at exhibitions		outside experts + student self		
25	FRE- QUENCY	Occasional testing seen as record keeping	Lag time between testing + feedback		Feedback on	ests is q	uick + formative		Students receive frequent, immediate feedback on interventions (RTI)		
		LEADERSHIP	LEADERSHIP		LEADERSHIP		LEADERSHIP		LEADERSHIP		
26	DISTRIBU- TION	Central Admin + Guidance at front door	Се	ntral Gui	idance but distributed Admin (VP/AP at lea	irning are	as)		Admin + Guid at learning areas		
27	SCHEDUL- ING	Room scheduling done by Central Administration	Central room scheduling	but occa	asional teacher discretion		Room scheduling done by Distributed Administration		Room scheduling done by affected teachers		
		PROFESSIONAL DEVELOPMENT	PROFESSIONAL DEVELOPMENT		PROFESSIONAL DEVELOPMENT		PROFESSIONAL DEVELOPMENT		PROFESSIONAL DEVELOPMENT		
28	PROF DEVELOP MENT	Central admin & state reqmts determine school wide prof. development, uncoordinated	Coordinated state/district PD program		Teachers lead school in prof.	developn	nent with district/state guidance		Teachers actively reflect on classroom practices, direct prof development within school vision/mission		
29	COMMON PLANNING	No common planning time	Departmental planning time			team pla	nning time		Teachers develop research projects to inform their own instruction		
	1	RELATIONSHIP BUILDING	 RELATIONSHIP BUILDING		RELATIONSHIP BUILDING		RELATIONSHIP BUILDING		RELATIONSHIP BUILDING		
30	ADVISORS	Guidance counselors believed sufficient to advise students	Group discussions led by guidance counselors		Teachers lead occasional Advisor- Advisee programs w/ vague curriculum		Teachers lead frequent Advisor-Advisee programs w/ vague curriculum		Teachers lead frequent Advisor-Advisee programs with consistent curriculum		
31	KNOWING	Principal does not now names of all students	Students known individually by individual teachers; sharing of knowledge of students among teachers is circumstantial			er team focused on relationship building			Student known by teacher team focused on relationship building + personalizing learning		
	1	CONNECTIONS	CONNECTIONS		CONNECTIONS		CONNECTIONS		CONNECTIONS		
32	ADULTS	PTO lends valued support to school; community members not sought out	Parents sought as vo	olunteers	s for program support		Community members sought as experts and mentors		Multi generation community members sought as experts, tutors, role models		

			SCHOOL TRA	NSFO	ORMATION + DEVEL		MENT MAP 3.1.7					
		Name(s)					School (District)			1	Col 1 = 1 poi	
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33	ARTICULA- TION	K-12 educational delivery not highly articulated	Occasional curricular connections to sending/receiving school		Occasional educational delivery + guidance connections to schools with lower or higher grade levels		K-12 educational delivery highly articulated		PK-16 educational delivery highly articulated; dual degree programs			
34 COMMUN- IT		Community uses seen as detrimental to student safety	Evening/weekend community use of limited spaces		Community	ty use of limited spaces			Community users during school day embraced as learning opportunity for students			
		ELEMENTARY	ELEMENTARY		ELEMENTARY		ELEMENTARY		ELEMENTARY			
35	TECHNOL- OGY	No computer use	Computer keyboarding		Students regularly make electronic presentations		Students show teachers use of technology		Regularly virtual learning			
36	GROUPING	Students grouped by age/year level	Students grouped by	age/year l	evel; regrouped for RTIs		Age/year groupings, RTIs; teachers loop with students		Multi grade instruction for developmental reasons			
37	EXPLRA- TORY	No/few exploratory programs	Phys Ed, Music are exploratory		Art added as exploratory		Science added as exploratory program		All courses are exploratory			
		MIDDLE YEARS	MIDDLE YEARS		MIDDLE YEARS		MIDDLE YEARS		MIDDLE YEARS			
38	TRACKING	Students are ability tracked	Students ability tracked w/ G+T		Students ability tracked w/G+T + learng ctrs		Students heterogeneously grouped		All students on personal learning plans			
39	SCHOOL CONCEPT	Junior High format even though may be called "Middle School"	Middle School without consistent Houses		School subdivided into ho	uses size	d for creating relationships		Perhaps K-8 for developmental + family reasons			
		HIGH SCHOOL	HIGH SCHOOL		HIGH SCHOOL		HIGH SCHOOL		HIGH SCHOOL			
40	TRACKING	Students are ability tracked	Students ability tracked w/ G+T		Students ability tracked w/G+T + learng ctrs		Students heterogeneously grouped		All students on personal learning plans			
41	SCHOOL ORGANIZATN	Departmental organizational structure + facility plan	Departmental w/ special program (Senior Project)		Mixed school organization:	i.e. depa	rtmental w/9th grade house		Small learning communities: virtual departments to maintain curriculum standards			
42	ELECTIVES	Limited or no elective courses			Goal: wide range of unrelated electives				Thematic learning; career clusters; magnet schools			
43	INTERDISC- IPLINARY	Content areas are not intentionally linked	Occasional teacher driven interdisciplinary links		Core content areas linked:	Science	Math, English-Soc Studies		Core content areas and exploratory areas linked			
44	APPLIED LEARNING	No applied learning in school	Tech Ed, Vocational, Career-Te	ech preser	t but unrelated to core academics		Academics related to Career-Tech programs		Academics imbedded in Career-Tech			
45	CLASS SIZE	Class size based on equity; teaching alone; available # students	Variety in class sized base	d also on	exclusiveness of subject area		Variety in class size based on team teaching		Variety in class sizes based on project teams			
46	TIME TABLE	45 to 60 minute class period	Block schedu	le, <b>90 min</b> ı	ute class periods		Mega-blocks within schedule		No uniform schedule; determined by teachers (students)			
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				SCHOOL TRAN	ISFO	RMATION + DEVEI		MENT MAP 3.1.7						
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		FACILITIES	N F	FACILITIES	N F	FACILITIES	N F	FACILITIES	N F	FACILITIES	Ν	F	NOW	FUTURE
		ALL GRADES		ALL GRADES		ALL GRADES		ALL GRADES		ALL GRADES				
		OVERALL PLANNING		OVERALL PLANNING School size set for		OVERALL PLANNING		OVERALL PLANNING		OVERALL PLANNING Intentional building size/capacity to foste	r			
1	SIZE/ CAPACITY	Circumstantial overall building size/capacity		administrative/operational efficiency; no small schools within		Efficient school size/capacity, non- autonomous schools within school		Efficient school size/capacity, semi- autonomous schools within school		relationships; autonomous small schools/teacher teams within				
2	FUTURE PROOF	Spaces/furniture inappropriate for current educational methods: wrong sizes, locations, services, equipment		Spaces/furniture rigid: conceived to serve one concept of current educational models		Spaces/furniture allow several current educational deliveries with difficulty		Spaces/furniture allow several current educational deliveries with ease		Spaces/furniture flexible/agile to anticipate future educational trends				
3	COLLABOR- ATION	Facility makes it almost impossible for teachers to collaborate		Facility supports occasional/non- synchronous teacher collaboration		Facility supports regular/non- synchronous teacher collaboration		Facility supports regular/synchronous teacher collaboration		Facility supports teacher collaboration + control of schedule + space				
4	VISIBLE LEARNING	No attempt to make learning visible		Bulletin boards in corridors		Bulletin boards, display cases for academics		Bulletin boards, display cases, windows to classrooms, video monitors		Learning highly visible through transparency, display, activities				
5	FLEXIBIL- ITY	Spaces rigid in design; no flexibility		Flexibility only in some folding partitions; never used		Flexibility in folding partitions; often used		Many spaces are flexible for multiple uses		Spaces flexible w/ minimal effort; agile fo reuse w/o physical change	r			
6	SOCIAL SETTING	Circulation conceived in minimal terms of moving people: Corridors + lobbies only		Functional circulation with notable public expression at Lobbies		Circulation centers on social gathering space(s) as focus of school		Central gathering space(s) + "hang out" spaces		Central social gathering space(s), "hang out" spaces + student centric social/work spaces				
7	EXPRES- SION	No intentional building expression		School colors are primary school signature		Special effort made at Main Entry; school colors prevail		School signature expressed in occasional places		School signature widely expressed throughout building				
8	SCHOOL ORGANI- ZATION	Plan based on single idea traditional of school organization: departmental, grade level, etc		Traditional planning but allows mixed grade levels		Flexible/agile school plan allows s	everal sch	ool organizations; 9th grade house		Relationship-based plan to best support Column 5 educational delivery				
9	INTERDISC- IPLINARY	Building plan: highly separate, unrelated functional areas; does not facilitate public access to community uses		Building plan: highly separate, unrelated functional areas; zoned for public access to community spaces		Building plan strategically relates functional areas; zoned for public access to community spaces		Building plan links different program areas to facilitate interdisciplinary learning within core; zoned public uses		Building plan links program areas for interdisciplinary learning among core + specials; zoned public uses				
10	MOVEMENT	Student movement expected to be across entire building; hall passes		Student movement controlled by teachers; hall passes		Building guides student movement within non-autonomous subzones		Building guides student movement within intentional focused subzones		Small school or movement only within relationship zones; hall passes are passe	9			
11	AUTONOMY	Self-contained school but missing some functional spaces		Self contained school with all appropriate functions		Intended as self-contained but relies of	ccasionally	y on nearby institutions for program use		Intentionally not self-contained: relies heavily on neighboring institutions				
12	COMMUNITY	No spaces for community use		Gym, Café, Auditorium occasional community use		Community access well planned + zoned		Community uses co-habitate building: Elderly Center, Clinic, Public Lib		Public + private community spaces used regularly by students				
13	MIXED USE	Single use school building		School shares site with other public uses: Library, Recreation		School shares site with business/residential		School shares site synergistically with business/residential		School planned to partly convert to other uses when enrollments drop				
14	LEADERSHIP	Admin + Guid central but hard to find		Central Admin + Guid at front door		Central Admin; d	istributed	Guidance spaces		Distributed Guid + Admin				
15	PARENTS/ VOLUNTRS	No spaces oriented to parents		Parents access Library or Admin		Parent Room		Volunteer Room		Parent Room + Volunteer Room				

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		SPECIFIC SPACES	SPECIFIC SPACES		SPECIFIC SPACES		SPECIFIC SPACES		SPECIFIC SPACES		
16	TRANSPAR- ENCY	No windows to corridors	View panels at doors				ms allow teachers to observe students dependently		Abundant windows connecting all spaces, including Teacher + Admin		
17	GROUPING	Building conceived as unrelated Classrooms along Corridors	Classrooms related to others of similar use		1 3	ers of diffe /grade lea	rent use to support interdisciplinary, multi rning		Building conceived as suites of flexible learning spaces		
18	SMALL GROUPS	No small learning spaces		Few	small group learning spaces irregularly lo			Variety of small learning spaces closely related to core spaces + Med Ctr			
19	ARTS	No Visual/Perf Arts spaces	Inadequate Visual/Perf Arts spaces		Spaces adequate, related to oth	er "specia	Is" but not related to core spaces		Adequate arts spaces located to integrate w/ core learning		
20	SPECIAL ED	Separate Spl Ed spaces	Spl Ed in ad hoc spaces converted from other uses, too big/too small		Spl Ed "pull out" model;	Resource	Rooms + Self Contained		Inclusion model; minimal exclusive Spl Ed spaces		
21	PE/ ATHLETICS	Inadequate space for Phys Ed	Gym for Phys Ed/Intramurals/Athletics		Multipurpose Gym designed	d with goo	d acoustics for assembly use		Gym/Pe/Atlhetics facilities used by community		
22	TECH ED	No Tech Ed or "hands on" applied learning spaces	Tech Ed spaces,	unrelate	d to core spaces		Tech Ed spaces easy access from core spaces		Tech Ed spaces integrated with core curriculum + spaces		
23	WET LABS	Highly specific labs: Science Labs designed for different sub sciences		Multi-p	purpose Science Labs; other disciplines se	eparate			Labs are all flexible Wet Labs: Science=Art=Home/Fam=Tech Ed		
24	CLASS- ROOM SIZES	Irregular Classroom sizes seen as inequitable	Uniform Clas	sroom si	ze: equitable		Classroom sizes vary to match size of student groups		Variety of learning spaces supporting teachers collaborating with varied groups		
25	DRY LABS	Insufficient Computer Labs	Sufficient Computer Labs		Computer/Dry Labs flexib	le for futu	e conversion to other uses		Laptop computers; no Labs needed		
26	MEDIA CTR	Media Ctr contains print media only	Media Ctr contains print + electronic media		Media Ctr demand reduced by classrooms contain electronic media		Media Ctr rethought as collaborative work/meeting/information place		Media Ctr partly virtual, distributed in several locations		
27	ASSEMBLY	Assembly needs not served by facilities	Assembly needs served poorly: in Gym or Café; no Stage		Cafetorium with adequate Stage		Auditorium sized for occasional peak use		Auditorium stage sized for teaching & learning, seating as few as possible		
28	TEACHER PLANNING	No common teacher spaces except Lounge or Dining	Conf Rooms for teacher use		Teacher "hotels" + Cor	nf Rms for	common planning time		Teacher Planning Ctrs with Conf + Food		
29	CONNEC- TIONS	Self contained classrooms with no connecting doors/walls	Folding walls between few classrooms, always closed		Doors/barn doors between classrooms		Variety of doors, folding walls, windows to adjacent spaces allow flexibility		Suites of flexible spaces for varied uses		

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		FOOD SERVICE		FOOD SERVICE		FOOD SERVICE		FOOD SERVICE		FOOD SERVICE				
30	FOOD CHOICES + PREP	Menu includes no fresh food, one menu choice each day		Menu includes no fresh food, multiple menu options offered, breakfast & after school meals offered		Menu includes fresh, locally grown food, multiple menu options, breakfast + after school meals offered		Menu includes fresh, locally grown food, multiple menu options prepared by staff and learners, breakfast + after school meals offered		Menu includes fresh, locally grown food, multiple menu options. Grown and prepared by staff and learners, breakfast + after school meals offered				
		SUSTAINABLE DESIGN		SUSTAINABLE DESIGN		SUSTAINABLE DESIGN		SUSTAINABLE DESIGN		SUSTAINABLE DESIGN				
31	ENVIRON IMPACT	No sustainable design focus		Building design focused on energy savings		Building design incorporates energy savings, day lighting and low impact building materials		environment, integrates design, construction and operation of building		Building seeks carbon neutral impact, integrates design, construction and operation of building into curriculum				
		FURN + EQUIP		FURN + EQUIP		FURN + EQUIP		FURN + EQUIP		FURN + EQUIP				
32	TECH INTE- GRATION	Virtually no technology; no phones in classrooms		Basic, non-integrated technology; intercom; no classroom phones		Partial integrated technology; classroom phones		Integrated tech. including interactive bds, doc proj; controls for all to use		Integrated technology; students use PDAs, cell phones, notebooks, Kindles				
33	STUDENT FURNITURE	Single purpose connected desk/seats designed for lectures		Desks w/ movable seats, not groupable		Flexible desks + chairs, groupable		Flexible adjustable height ergonomic desks, chairs, bean bags		Students work in personal workspaces				
34	CABINETRY	Little or no cabinets/shelving in teaching spaces		Basic fixed cabinetry; not enough to serve needs		Fixed cabinetry sufficient for basic needs		Fixed cabinetry meets all storage needs		Flexible, adjustable cabinetry on wheels; groupable to change space				
35	COMPUTER RATIO	10:1 student: computer ratio		6:1 student: computer ratio		4:1 student: computer ratio; selective use of laptops		2:1 student: computer ratio; laptops on carts		1:1 student: computer ratio; laptops, PDAs, tablets for all				
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