

SEA CHANGE:

Creating an Aligned Educational System



Algonquin & Lakeshore
Catholic District School Board

CASSA Conference – July 2025



Algonquin and Lakeshore Catholic DSB



Michele McGrath
Superintendent of Education

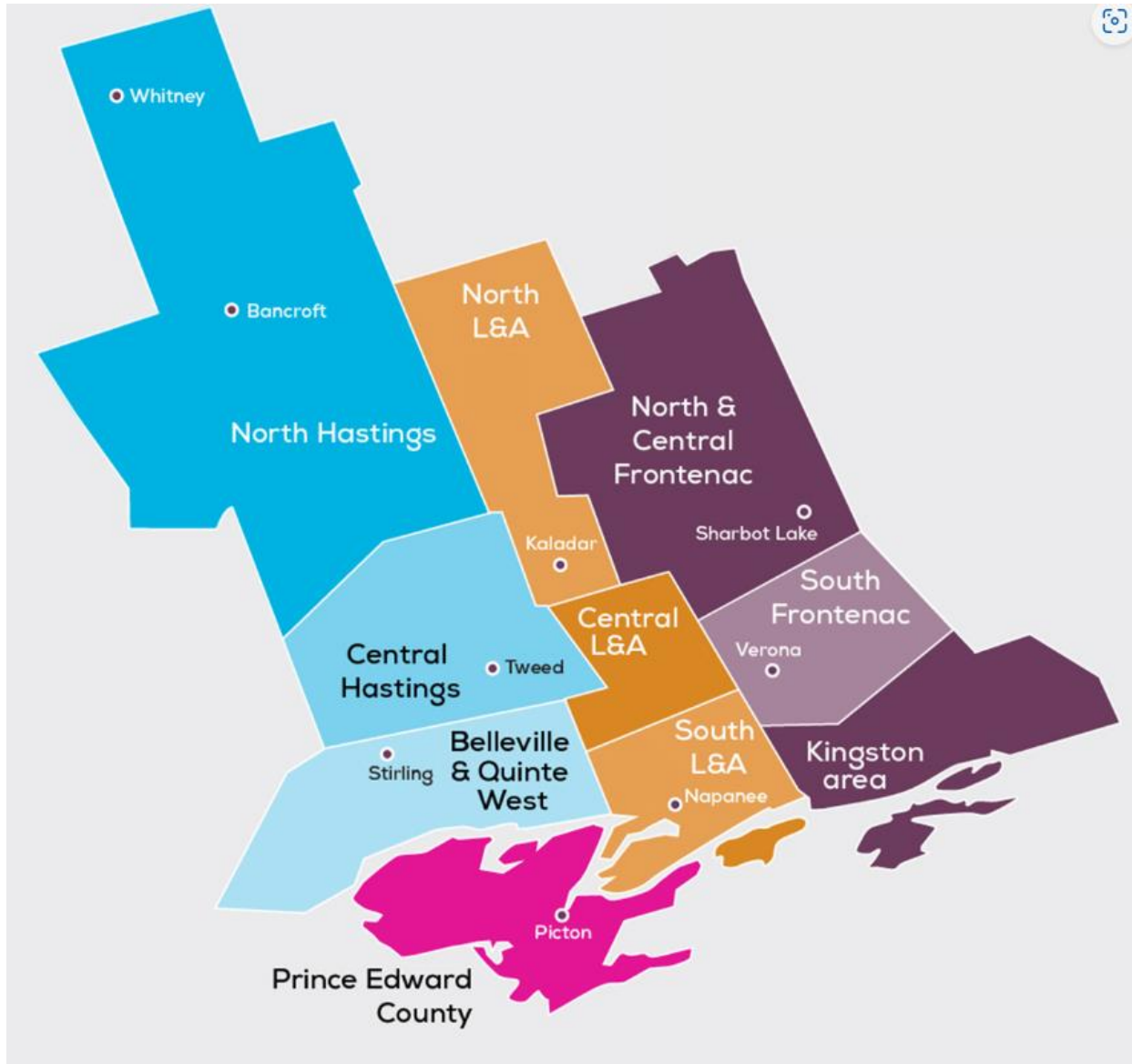


Bryan Davies
Controller of Plant and Planning Services

Algonquin and Lakeshore Catholic DSB



Algonquin and Lakeshore Catholic DSB



12,347

Total Students

33

Elementary Schools

5

Secondary Schools

5

Adult Learning Sites

2

International Baccalaureate World Schools

5

Elementary French Immersion Sites

16

Specialist High Skills Major Programs

8,451

Elementary Students

3,896

Secondary Students

1,375

Permanent employees

16,000+

Square kilometres that make up our Catholic Learning Community

When you think of a School what image do you see?



*“There's a dream he dreams where the high school's dead and stark
It's a museum and we're all locked up in it after dark
The walls are lined all yellow, grey and sinister
Hung with pictures of our parents' prime ministers”*

Wheat Kings – The Tragically Hip

Algonquin and Lakeshore Catholic DSB



You are given a blank canvas or a clean slate and asked ...

In your mind, picture a place that you love to learn and / or work?

Why did you choose that image?



SEA CHANGE - An Aligned Educational System

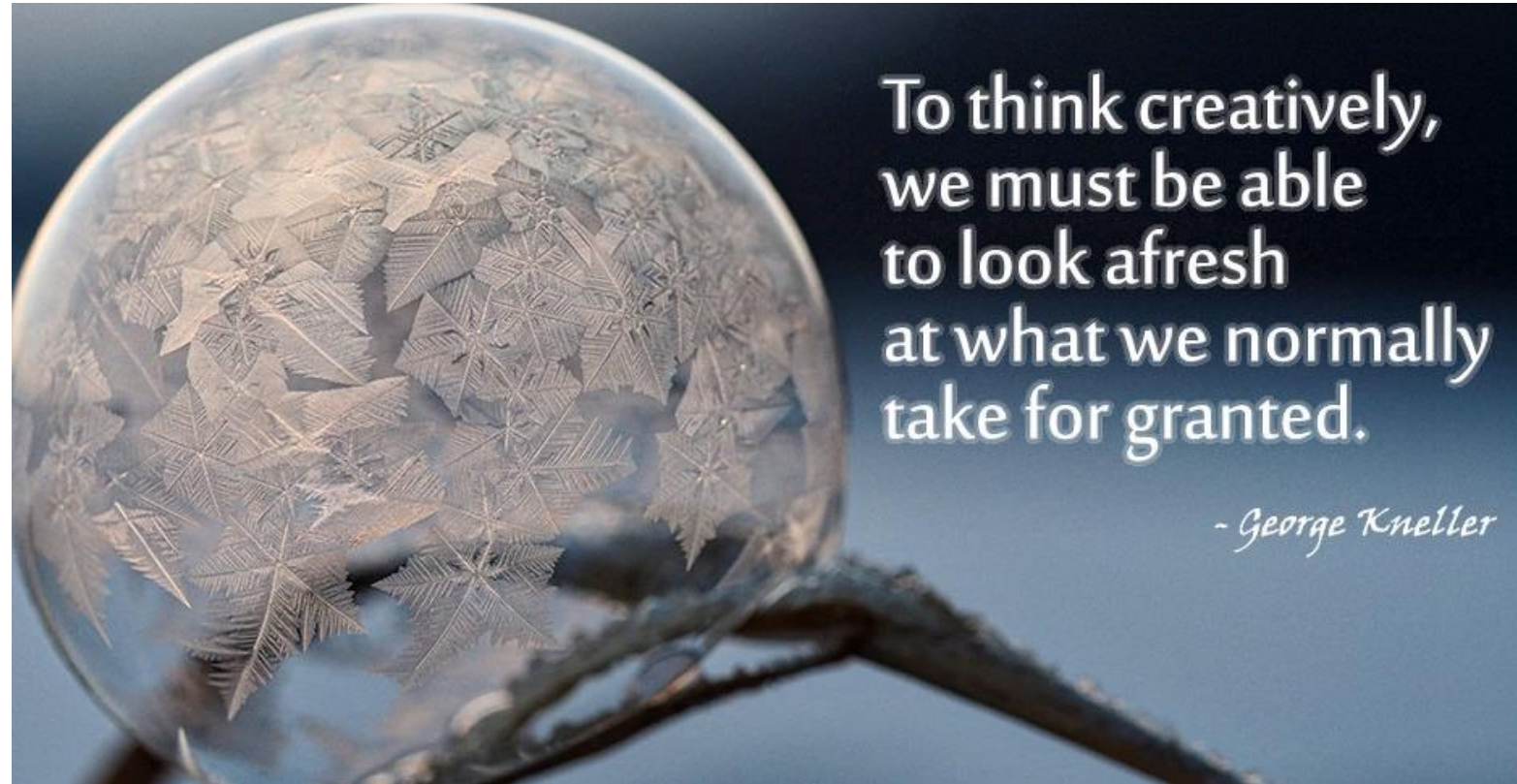


*“Nothing of him that doth fade
But doth suffer a sea-change
Into something rich and
strange”*

The Tempest – William Shakespeare

Sea-Change itself is a metaphor, suggesting a profound or transformative alteration into something new

Source: AI Overview



To think creatively,
we must be able
to look afresh
at what we normally
take for granted.

- George Kneller



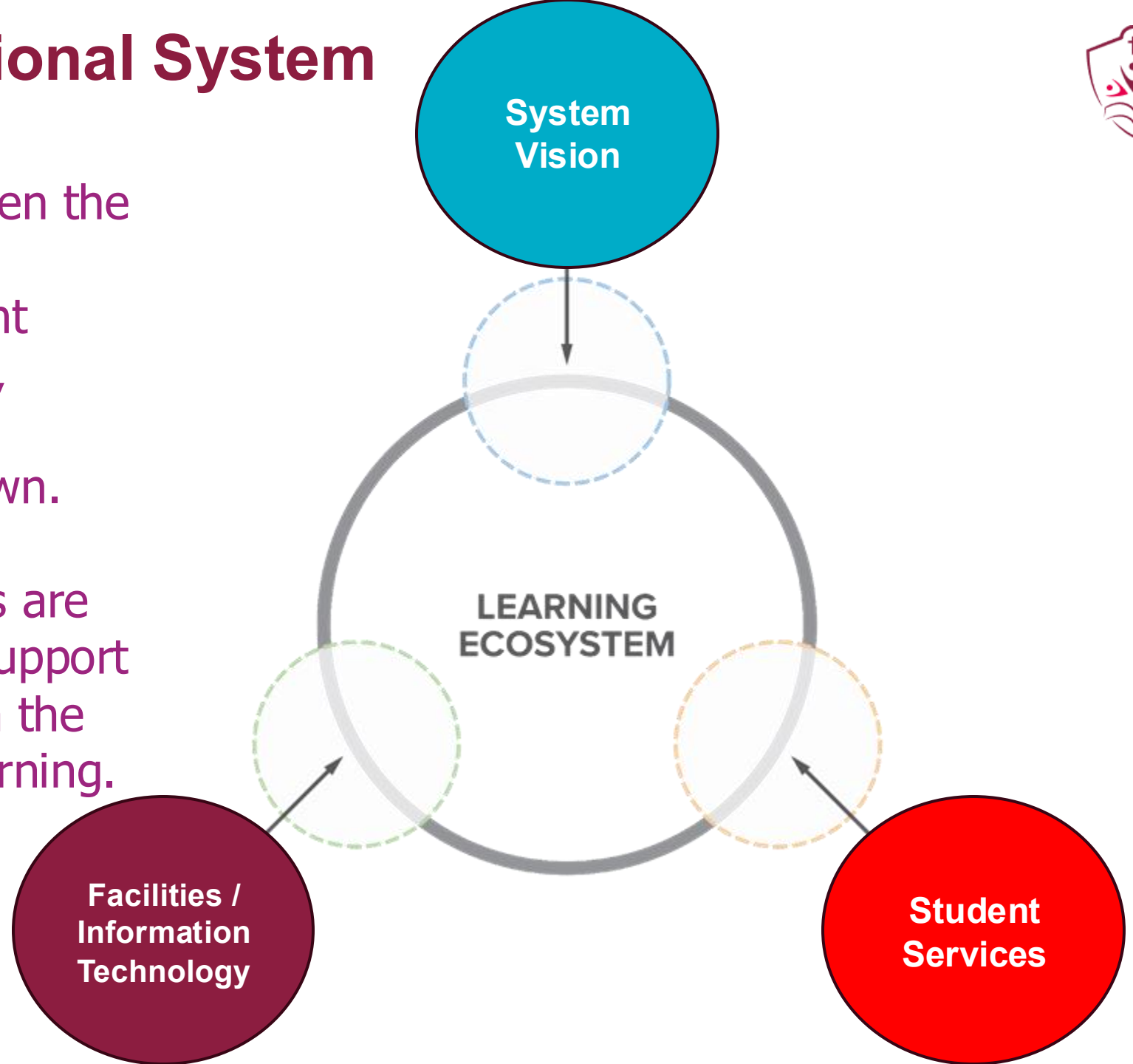
What do we mean when we say
“An Aligned Educational System”?

An Aligned Educational System



In the ALCDSB aligned ecosystem the silos between the Board's Facilities, Learning Technology Services, Student Services, Human Resources, Curriculum and Finance departments are broken down.

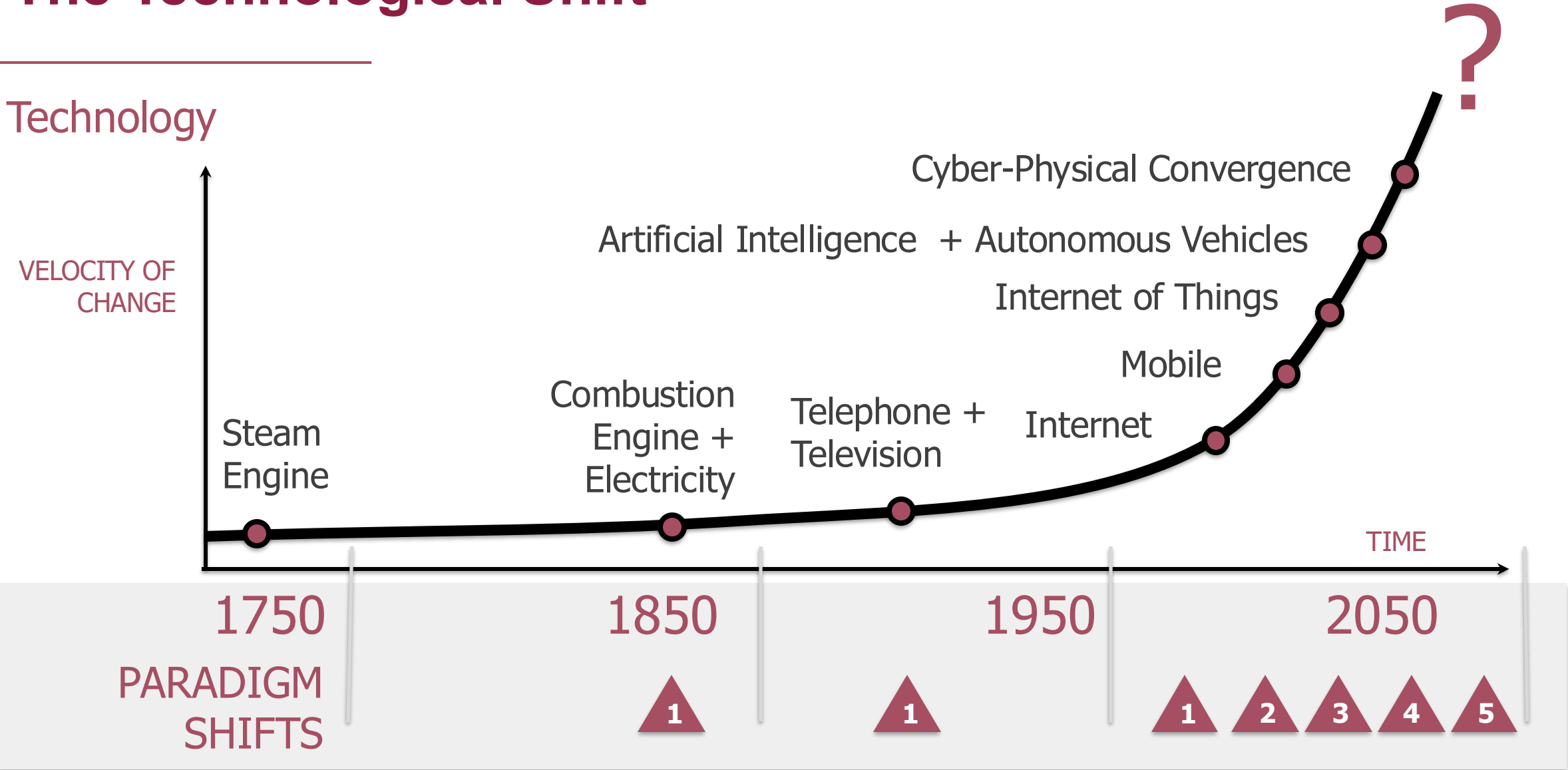
The work of all departments are aligned to strengthen and support one another in keeping with the overall system vision for learning.





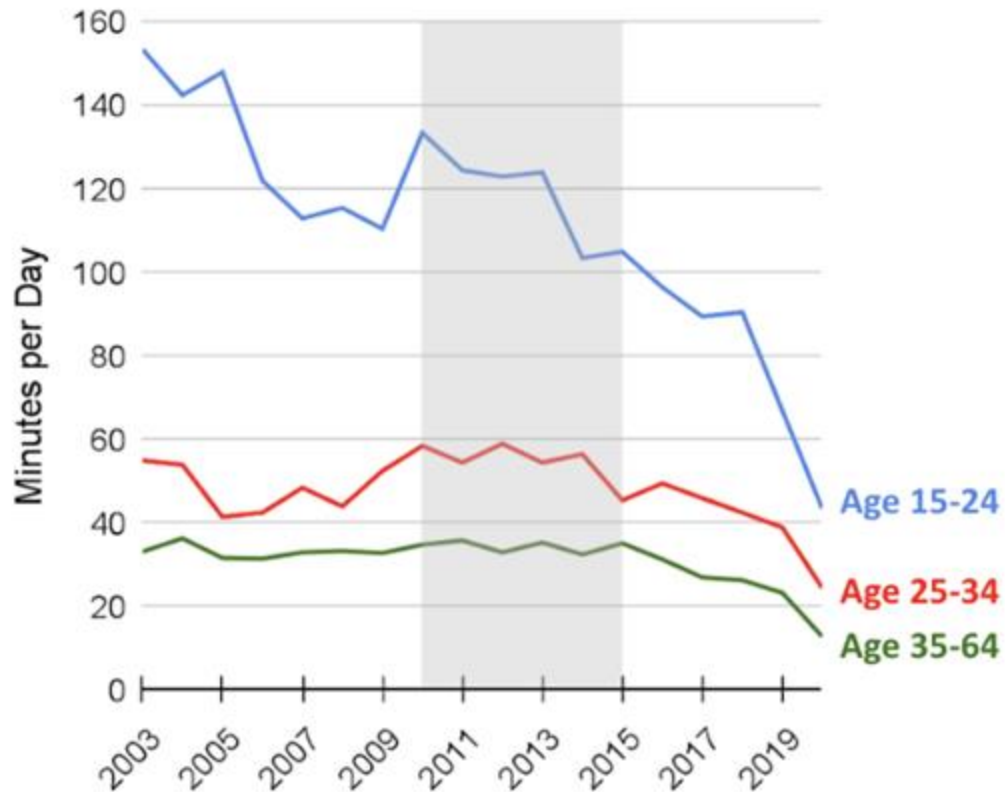
The Why

The Technological Shift

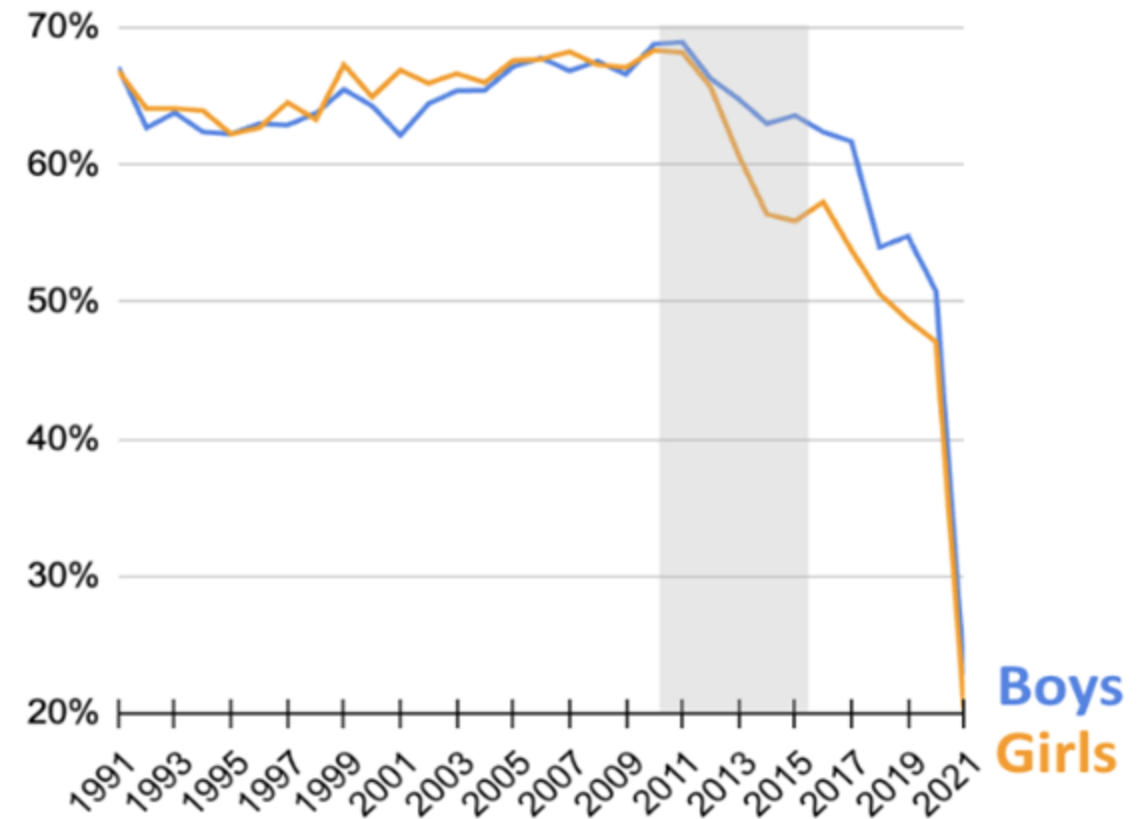


The Why

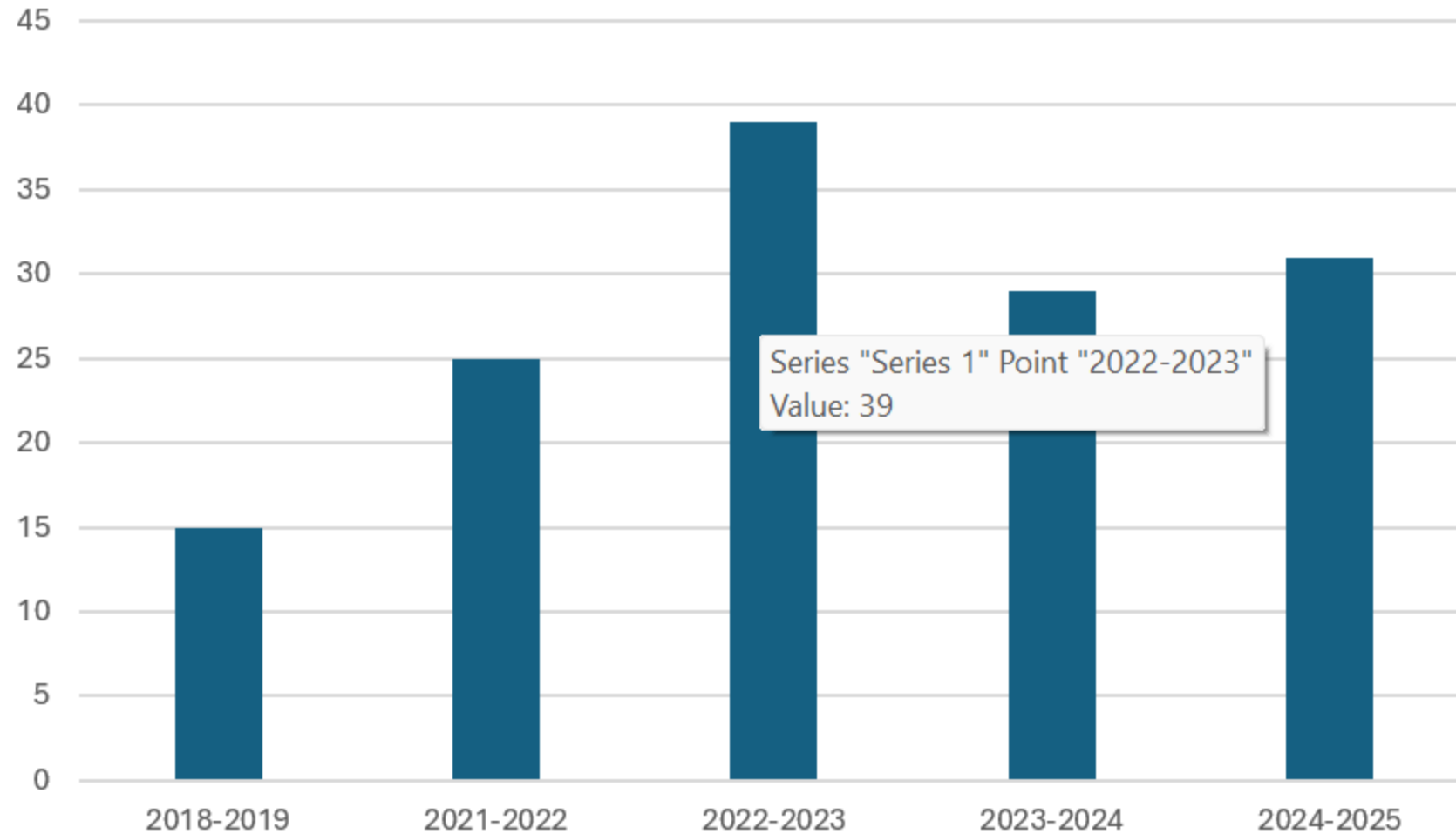
Daily Avg Time with Friends (minutes)



Percent Satisfied with Themselves (USA 8th, 10th, and 12th Graders)

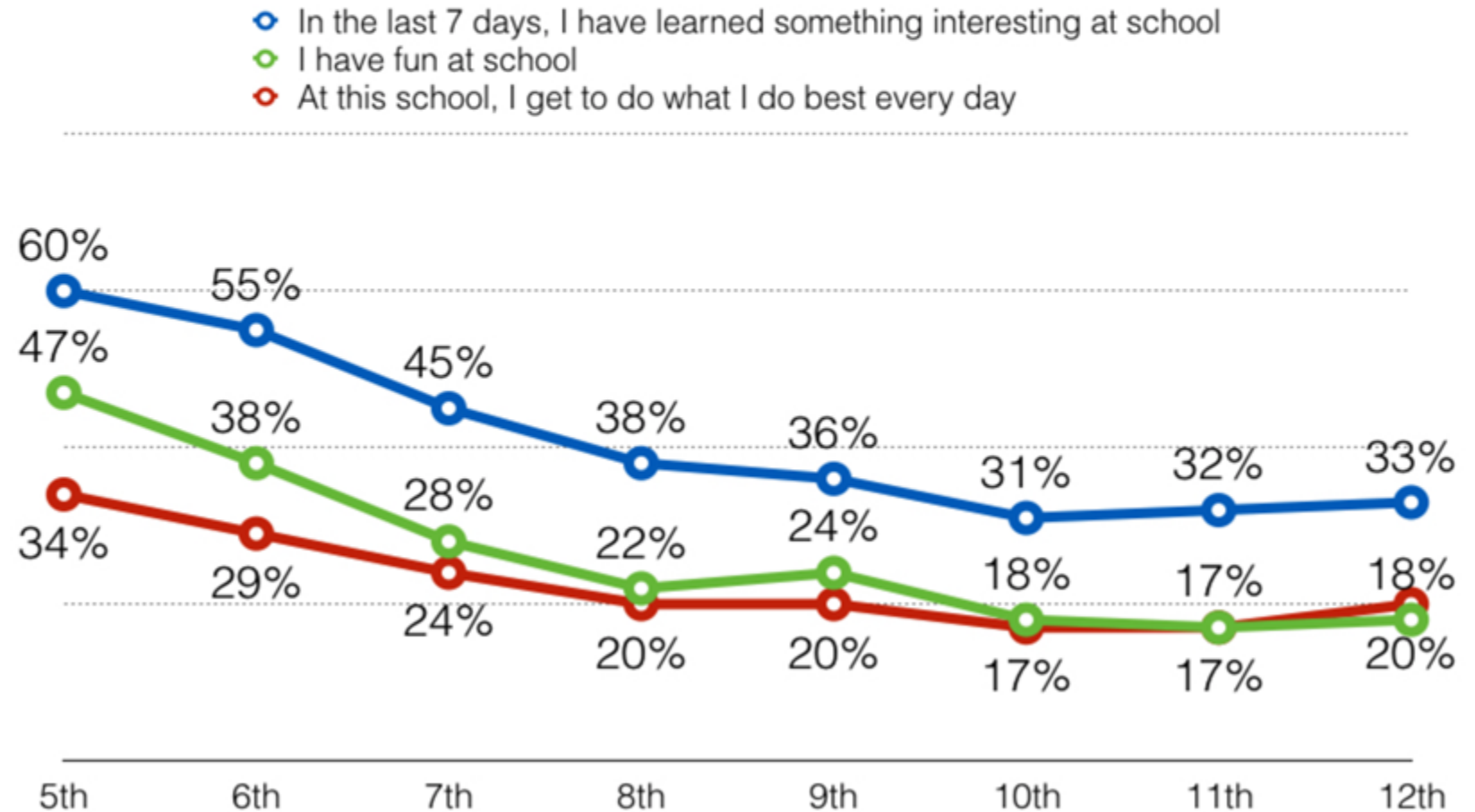


ALCDSB Absenteeism



The Why

Percentage of Students Who Strongly Agree, By Grade (n = 928,888)

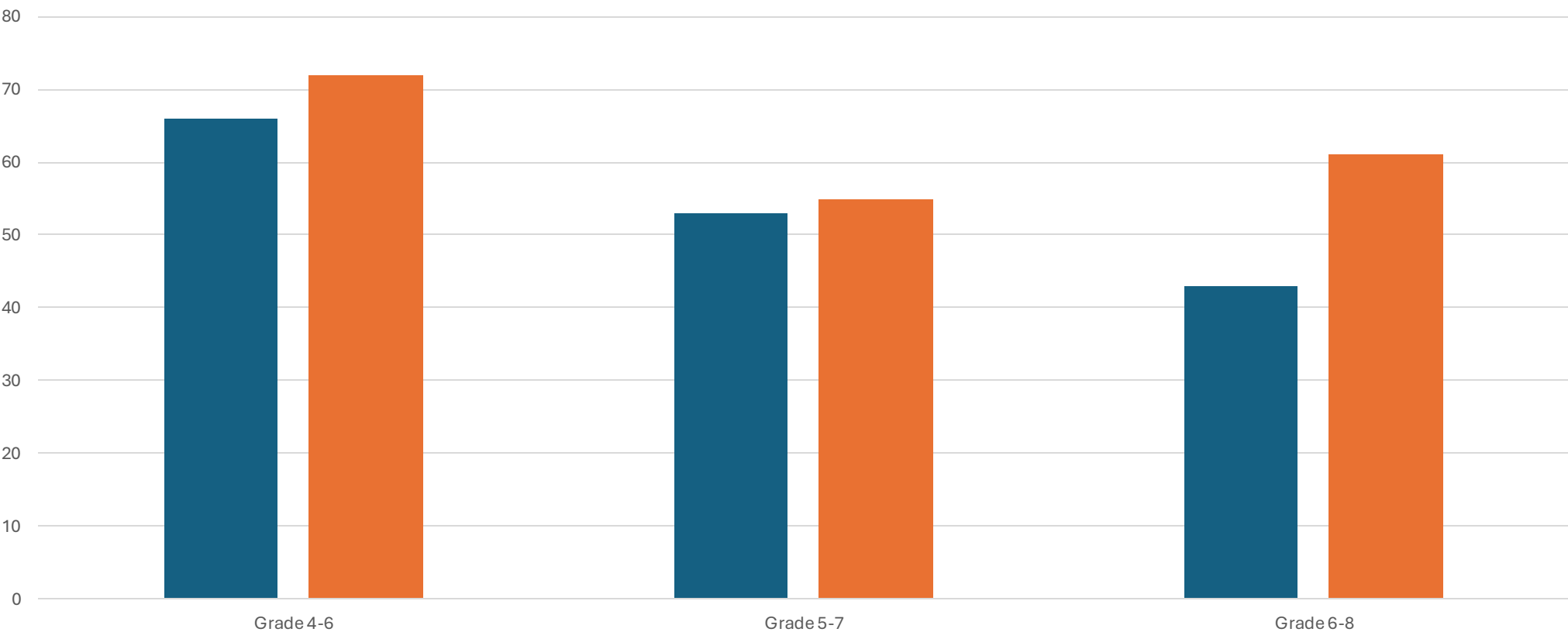


ALCDSB School Climate Survey

“When a flower doesn’t bloom, you fix the environment in which it grows, not the flower.” Alexander den Heijer







MDI Data St. Joseph Catholic School





An evolving world demands adaptive schools

TOP 10 SKILLS OF 2025



PROBLEM-SOLVING

-  Analytical thinking and innovation
-  Complex problem-solving
-  Critical thinking and analysis
-  Creativity, originality and initiative
-  Reasoning, problem-solving and ideation


SELF-MANAGEMENT

-  Active learning and learning strategies
-  Resilience, stress tolerance and flexibility

TECHNOLOGY USE & DEVELOPMENT

-  Technology use, Monitoring and control
-  Technology design and programming

WORKING WITH PEOPLE

-  Leadership and social influence

Source: Future of Jobs Report 2020, World Economic Forum



“It is not our learners who are disabled. It is our systems, our curriculum.” David Rose

The goal of UDL is **learner agency** that is purposeful & reflective, resourceful & authentic, strategic & action-oriented.

Design Multiple Means of
Engagement



Design Multiple Means of
Representation



Design Multiple Means of
Action & Expression



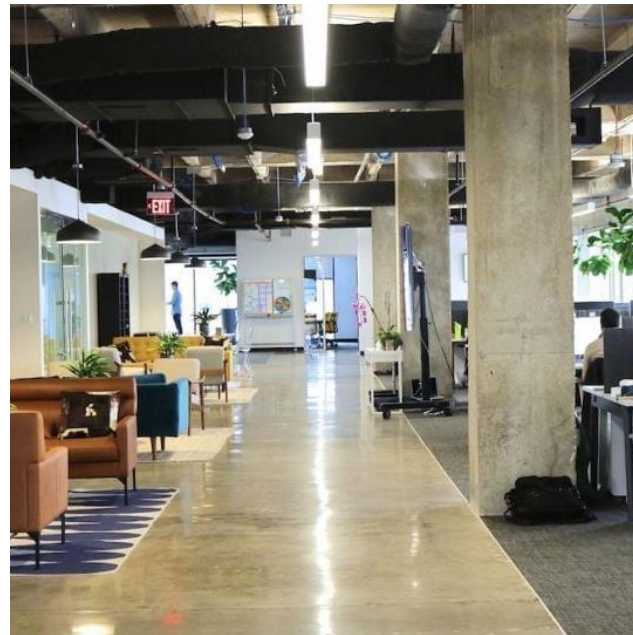
The UDL Guidelines

What does the Working Office look like?



“Typical office layout has undergone a complete turnaround from prioritizing desk allocation to focusing on spaces that enable collaboration and high-quality experiences”

*Cubicle farms and open floor plans are out
Fortune.com May 31, 2022*





The ALCDSB Journey

ALCDSB Journey



Source: Lean Six
Sigma Global

ALCDSB TIMELINE – Aligned Educational System



2010 - 2012

Visioning Report sets ALCDSB future direction for education and facilities to focus on UDL environments.

2018 - 2020

FI leads Discovery Visits and is design lead for St. Joseph and Kingston West (now St. Genevieve)

2020 - 2023

FI Learning Designers work on learning ecosystem alignment with principals

2023 - 2025

FI works with St. Joseph and St. Genevieve on readiness and implementation.

2025 -

ALCDSB Staff works with 2 Family of Schools on Universal Design for Learning Furniture Pilot.

2014 - 2016

FI leads Discovery Visits and is design lead for St. Francis of Assisi .

2019 - 2023

FI leads Discovery Visits and is Design Consultant for JJ O'Neill, Our Lady of Mount Carmel, and St. Gregory

2022 - 2024

FI conducts 10 school Spatial Audit, creates furniture guide, and leads furniture exhibition

2024 -

FI works with JJ O'Neill, Our Lady of Mount Carmel, St. Gregory and St. Francis on readiness and implementation. FI works with SATs on engagement and implementation.

ALCDSB Learning Community School Builds



- **St. Francis of Assisi CS** (Opened Sept 2017)
 - 363 pupil places
 - 36,470 Sq.ft.
- **St. Geneviève CS** (Opened September 2024)
 - 481 pupil places – 4 childcare rooms – 3 EarlyON Rooms – on a **new school site**
 - 55,177 sq.ft. – Project Cost \$22,919,583
- **St. Joseph CS – Addition** (Opened December 2024)
 - 481 pupil places – 3 childcare rooms – 2 EarlyON Rooms
 - 55,313 sq.ft. – Project Cost \$22,628,957
- **JJ O'Neill CS – Addition** (Under Construction)
 - 331 pupil places – 3 childcare rooms
 - 44,218 sq.ft. – Project Cost \$22,613,998
- **Our Lady of Mount Carmel CS** (Under Construction)
 - 518 pupil places – 3 childcare rooms
 - 54,176 sq.ft. – Project Cost \$28,279,689
- **St. Gregory CS**
 - 354 pupil places on a **new school site**
 - 37,448 Sq.ft. – Project Cost \$21,244,065



2023-24 Elementary Enrolment – 8,451

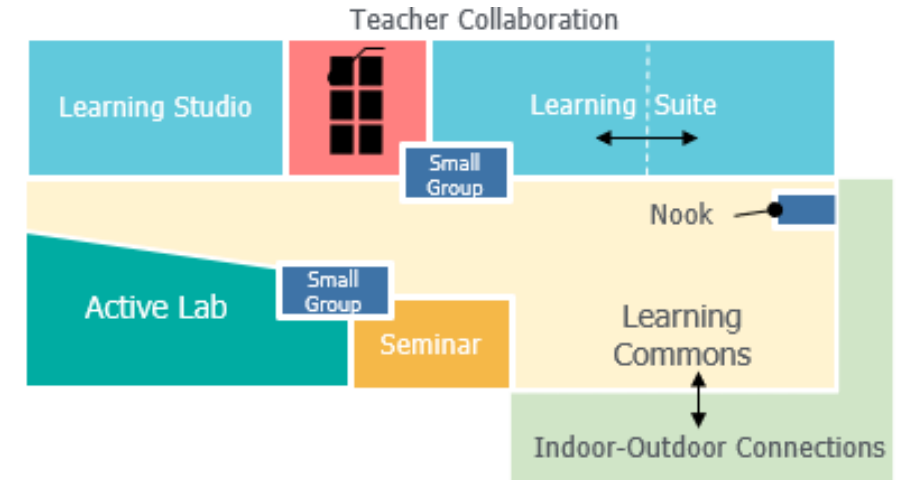
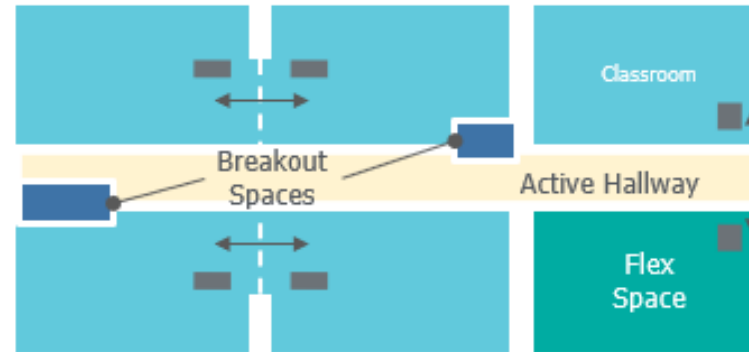
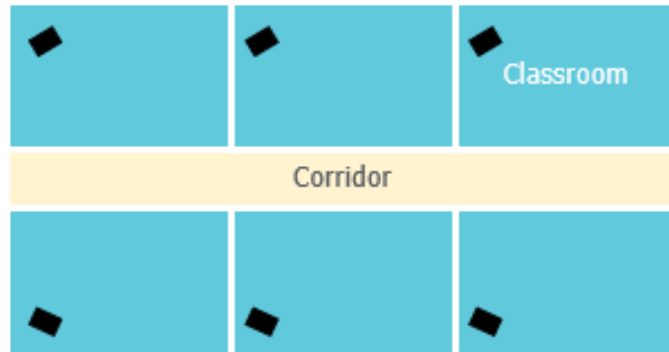
Total OTG of LC Schools - 2,528

Elementary Students in LC Schools - 29.9%



What does an Aligned Educational School (“Learning Community” School) look like and where can you find them?

Learning Environment Continuum

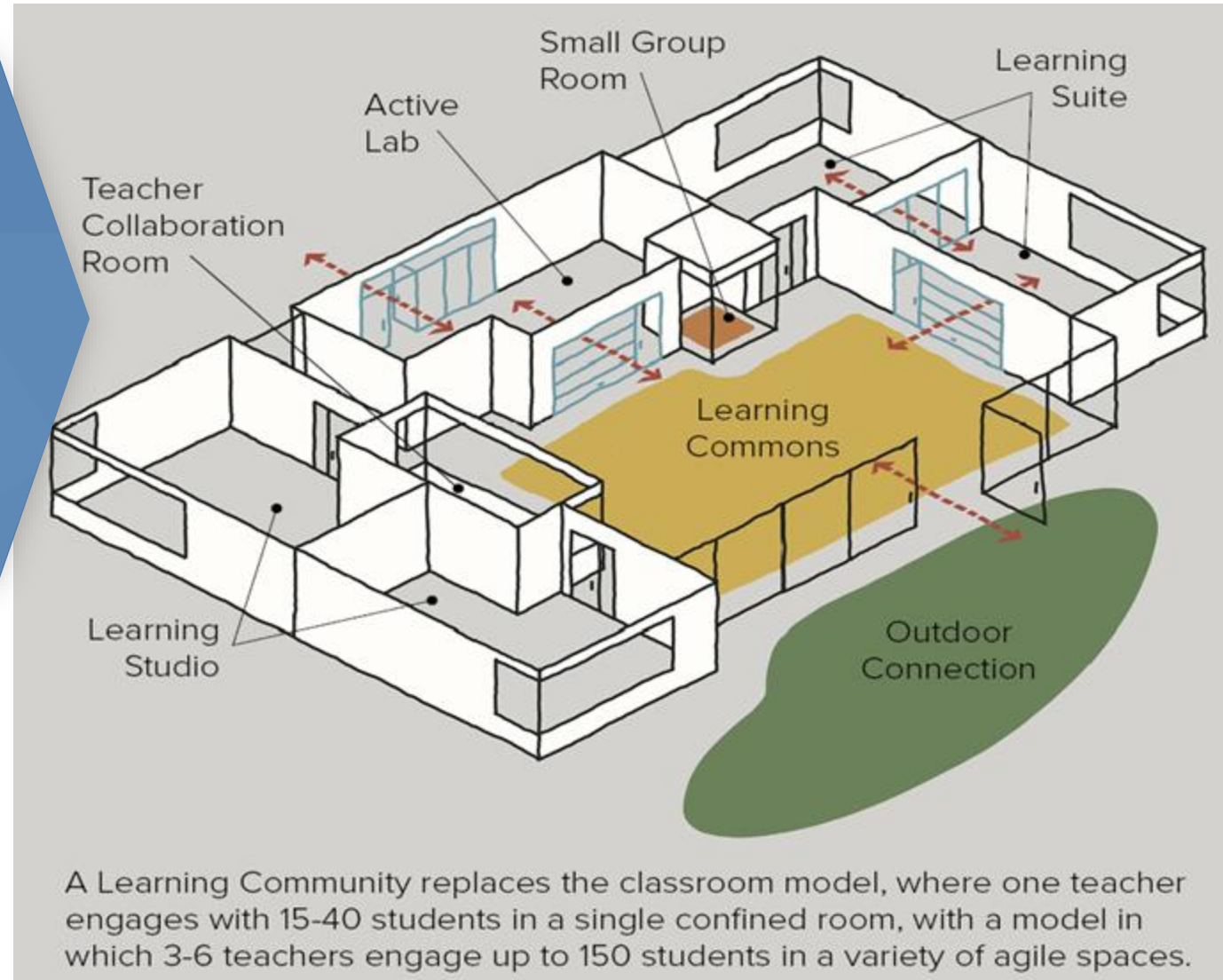


- Less spatial diversity
- More classroom oriented

- Greater spatial diversity
- Less classroom oriented

A Learning Community is...

A variety of dynamic spaces purposefully designed to foster active, student-centered, and collaborative teaching & learning.



Where are Learning-Community Schools located?



Argentina

Australia

Azerbaijan

Belgium

Cambodia

CANADA

Chile

China

Costa Rica

Cuba

Czechia

Ecuador

Egypt

Finland

France

Germany

Georgia

Hong Kong

Indonesia

India

Indonesia

Ireland

Israel

Japan

Kazakhstan

Kenya

Lebanon

Malaysia

Maldives

Mexico

Morocco

Nepal

Netherlands

New Zealand

Nicaragua

Norway

Philippines

Portugal

Russia

Singapore

Spain

Saudi Arabia

South Korea

Sri Lanka

Sweden

Switzerland

Taiwan

Tanzania

Thailand

Uganda

Ukraine

United Arab Emirates

United Kingdom

United States of America

Venezuela

Vietnam

Where are LC Schools located in Canada?



**Norma Rose Point
School**

**Vancouver, British
Columbia**



Where are LC Schools located in Canada?



**Strathcona-
Tweedsmuir School**

Okotoks, Alberta



Where are LC Schools located in Canada?



**Douglas Park
School**

**Regina,
Saskatchewan**



Where are LC Schools located in Canada?



**St. Francis of Assisi
Catholic School**

Kingston, Ontario



Where are LC Schools located in Canada?



**St. Genevieve
Catholic School
Kingston, Ontario**



Where are LC Schools located in Canada?



**St. Joseph Catholic
School**

Belleville, Ontario



St. Joseph Catholic School – Belleville, Ontario



Ground Floor



[illegible]



The ALCDSB Journey (continued)

ALCDSB VISIONING



"If this is something that the board is truly thinking of looking into and implementing some things, **I think it will make teaching less lonely.** How many times do you go into your room at 8:30 and you really don't come out until 5:00, and even though you've had some interactions, you're still alone in your own little brain. Life is not like that. The kids aren't lonely in the classroom."

"Without teacher professionals, all other categories cannot exist and yet the other categories are the reason for teachers to teach. **Our discussion centered around the need not only to change space / environments, but also the way we teach and what we believe about teaching.**"

Discovery Process

Visioning Process | OLMC

The Visioning Process for Our Lady of Mount Carmel took place virtually over a three-day period: February 8-10, 2022

A team at Fielding International facilitated a series of engagements to gather input from a variety of OLMC stakeholders. These engagements included:

- 4 Core Visioning Team Workshops
- 4 Student Focus Groups
- 2 Teacher Focus Groups
- A Community Meeting
- Emerging Opportunities Presentation



Discovery Process

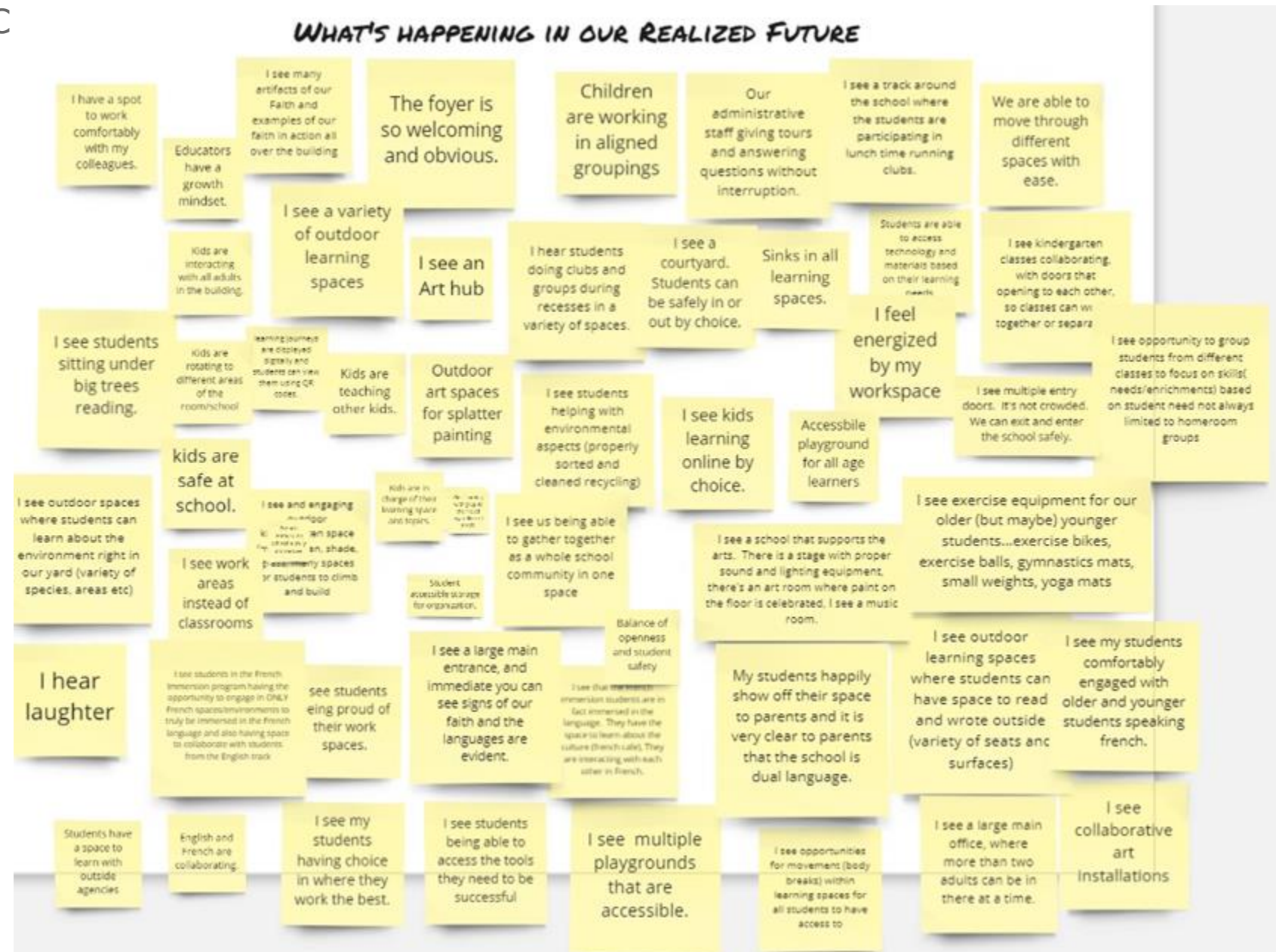
Visioning Process | OLMC



Example of archival information obtained through the discovery process.

Question:

Looking into the future, what do you see happening in the new school?



A Brief Look Back

Design Drivers | OLMC

What is a Design Driver?

A Design Driver is an action-oriented statement that the school design team will use to focus and refine the creation and construction of the new OLMC School.

How were they chosen?

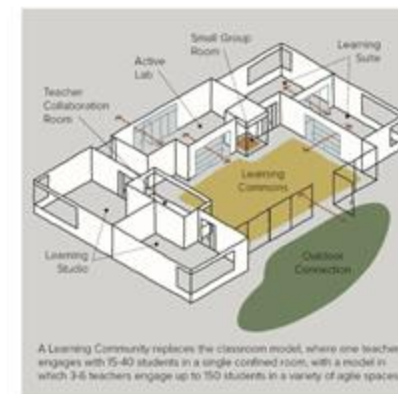
Each of the Design Drivers captures a key idea that emerged out of the visioning sessions, and also relates to the overall mission, vision, and values of ALCD SB.

Design Drivers | OLMC

UDL Equity is Adaptability



Learning Community



UDL: Equity is Adaptability

The learning environment will provide the flexibility for every learner to experience personalized success. Adaptability and accessibility are essential.



A Dual Language Ethos

Intentional detail will be paid to create special places that celebrate and support the learning of two languages: English and French.



Holistic Safety & Well-being

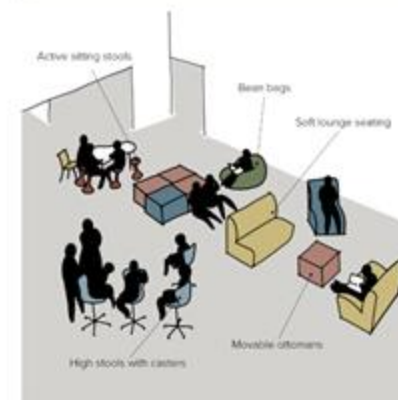
The campus will promote personal wellness through a variety of spaces that support physical, social, and emotional health. Movement and comfort are vital.



Outdoor Connections

In addition to an abundance of natural light to make the interior feel warm and inviting, there will be meaningful outdoor learning spaces that connect with nature.

Variable Seating



Spiritual Presence

The presence of God will be felt throughout the school. The building will have distributed places for calming reflection. Stained glass will be featured.

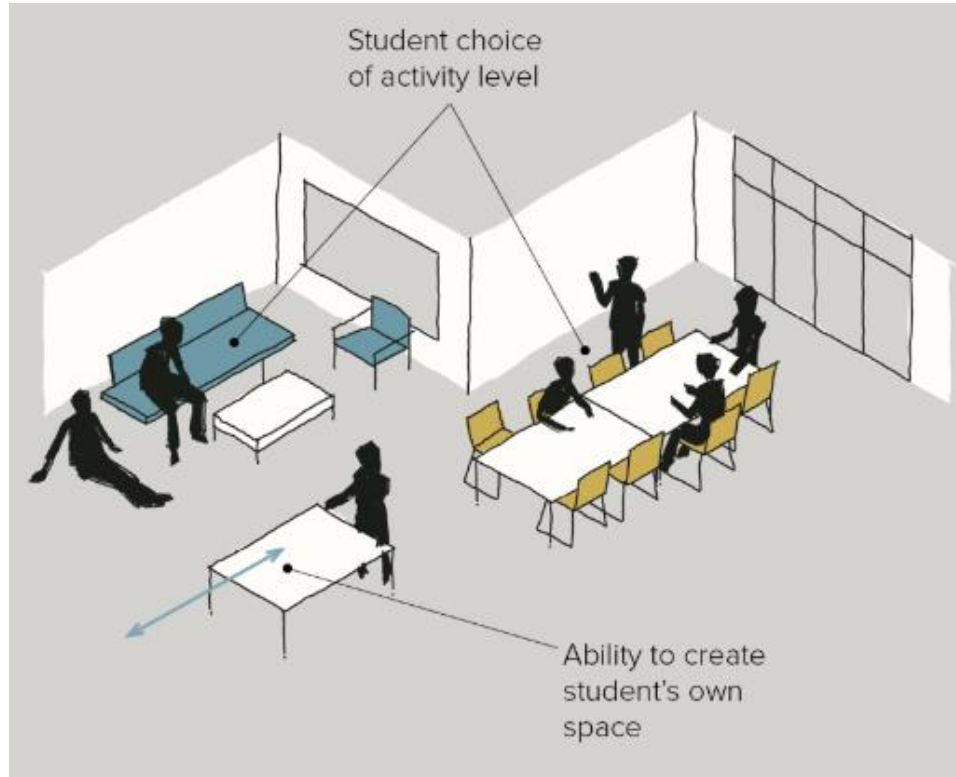


Communal & Collaborative Learning

The school will be a welcoming environment that promotes belonging, togetherness, and shared experiences for students, educators, and community members.



Design Patterns



CHOICE OF ENVIRONMENT in order to give learner's choice in how they interact with their environment, create partially-separated, visually-transparent learning environments that offer areas of different stimuli. Provide a variety of furniture that fits the context of the learning activities that will take place.

What is a Design Pattern?

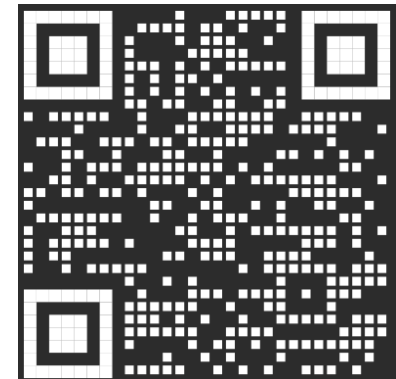
Design Patterns are simple sketches and annotations that get down to the essence of how a space works. These key ideas break down the complexity of school design as part of a system. Through the use of Patterns we can design and connect successful educational environments and experiences.

[Read More](#)

Curated by [Fielding International](#)



SchoolPatterns.com



Deck of Spaces – Creating Spaces aligned with UDL



deck of spaces™

the idea deck for creating spaces
aligned with **Universal Design for Learning**

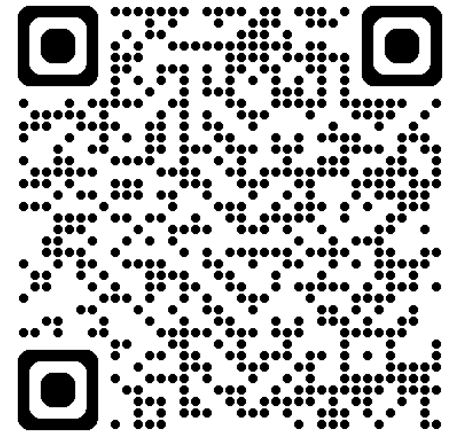


WHY SPACE DESIGN

Space is proven to influence behaviours and perceptions. If we are to empower educators to meet the needs of learner variability, and reinforce UDL inherent quality of supporting diversity, equity, inclusion and belonging, then our spaces must be the body language to reinforce these everyday efforts.

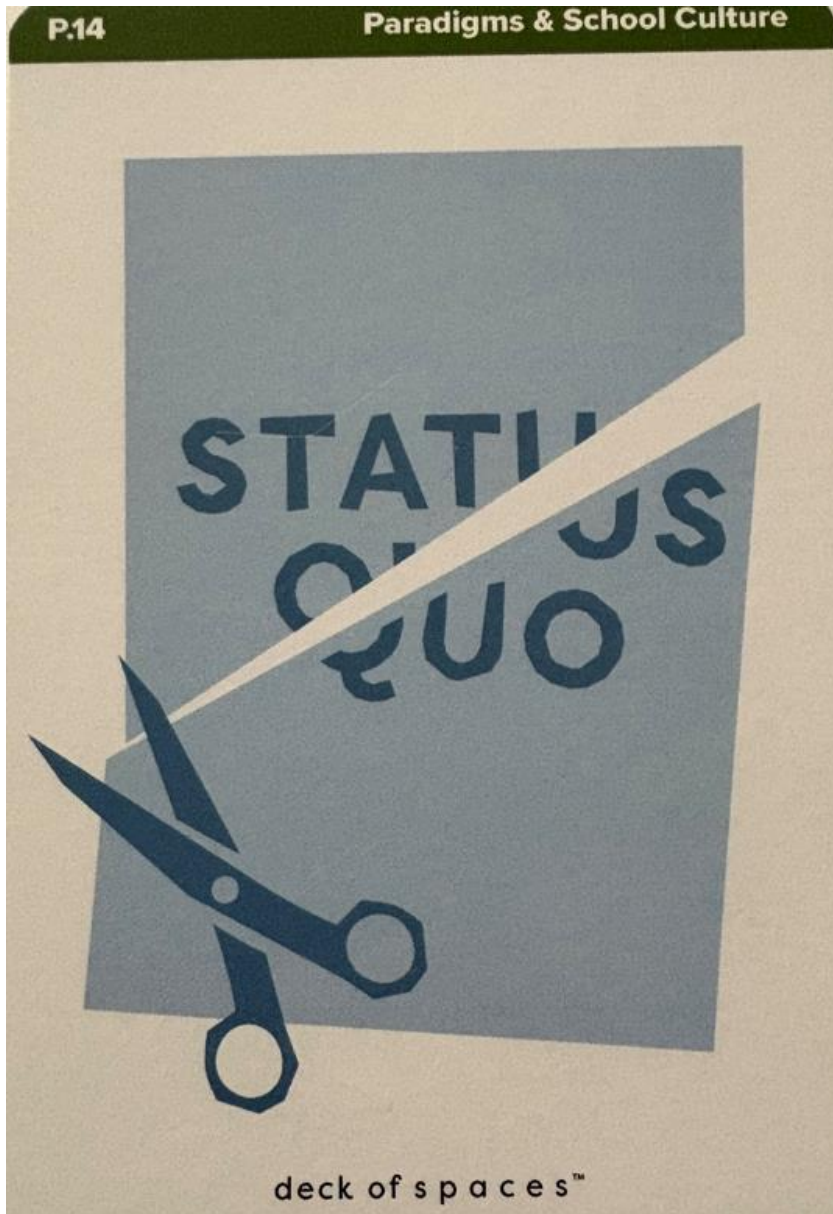
Physical space is a fundamental element in implementation, complementing and amplifying teaching practices, impacting learning mindsets of students and faculty, and having profound impacts on the overall student experience at your institution(s).

- Multistudio



[Deck of Spaces](#)

Deck of Spaces Activity



ACTIVITY

Working with your new friends around you and the cards provided consider the following question – 10 minutes

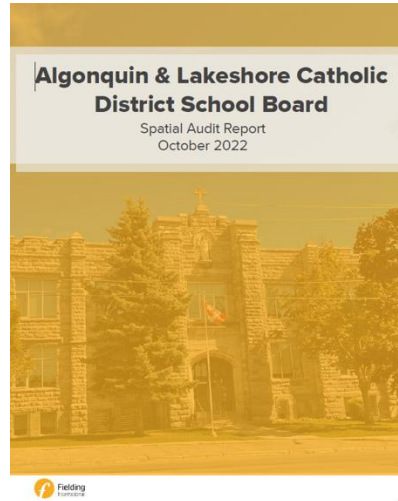
QUESTION?

Think about your own classroom, school, or district and use the cards to identify ideas about how you can reduce learning barriers for specific students or conditions in your school.



Spatial Audit Report

Spatial Audit – 10 Existing ALCDSB Schools



There were four primary goals of the Spatial Audit:

1. Look for patterns in the physical environment of ALCDSB schools of what is working well (*aligned with vision and values*) and what is not working well (*misaligned with vision and values*)
2. Create a set of spatial competencies that any school in the district can strive for.
3. Discover opportunities for potential Pathfinders. That is, conditions that are ripe for innovation.
4. Identify exemplars throughout the district.

Average Scores Across 10 Schools

	Evidence Score
#1 Diversity of accessible learning spaces	2
#2 Furniture supports student agency	1.7
#3 Warm & welcoming	3.1
#4 Conditions support holistic well-being	2.8
#5 Outdoor learning (beyond recess)	3.3
#6 No wasted space	2.2
#7 Quality commons	2.6
#8 Breakout zones	2

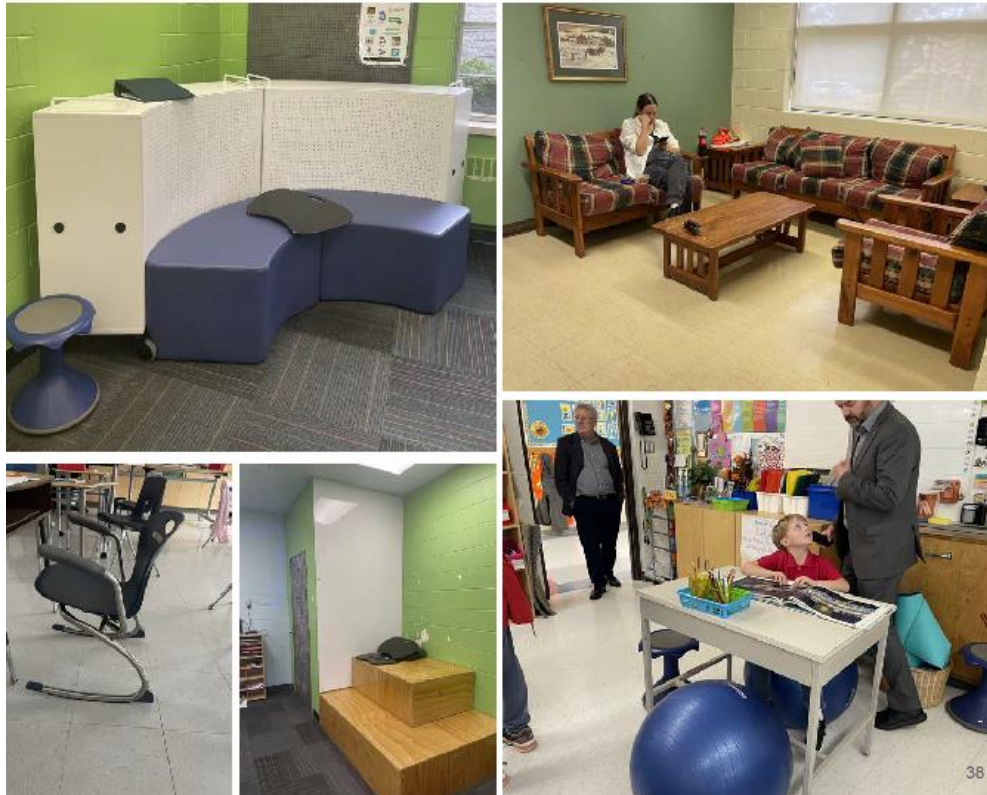


Audit Spatial Competencies Recommendations



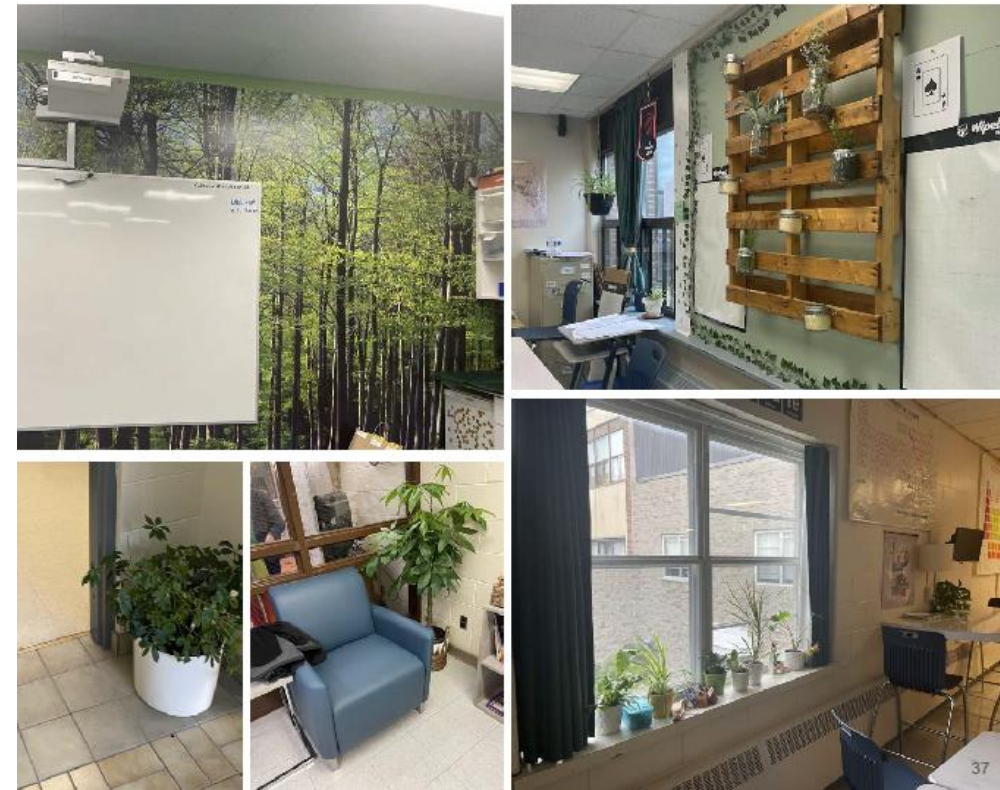
Invest in Seating (and standing) Variety

- Soft seating, balance boards, standing desks, exercise balls, rockers, tiered seating, stackable floor cushions, bean bags, wobble chairs, high tables, rugs, bar style seating...it will be transformative.



Greenify Our Schools

- The presence of nature on the inside of buildings has a remarkable effect on the feel of the space. Plants can be an easy way to give kids opportunities to take responsibility for something. Murals and views of nature has been shown to contribute to healthier learning environments.



Audit Spatial Competencies Recommendations



Create UDL Classrooms

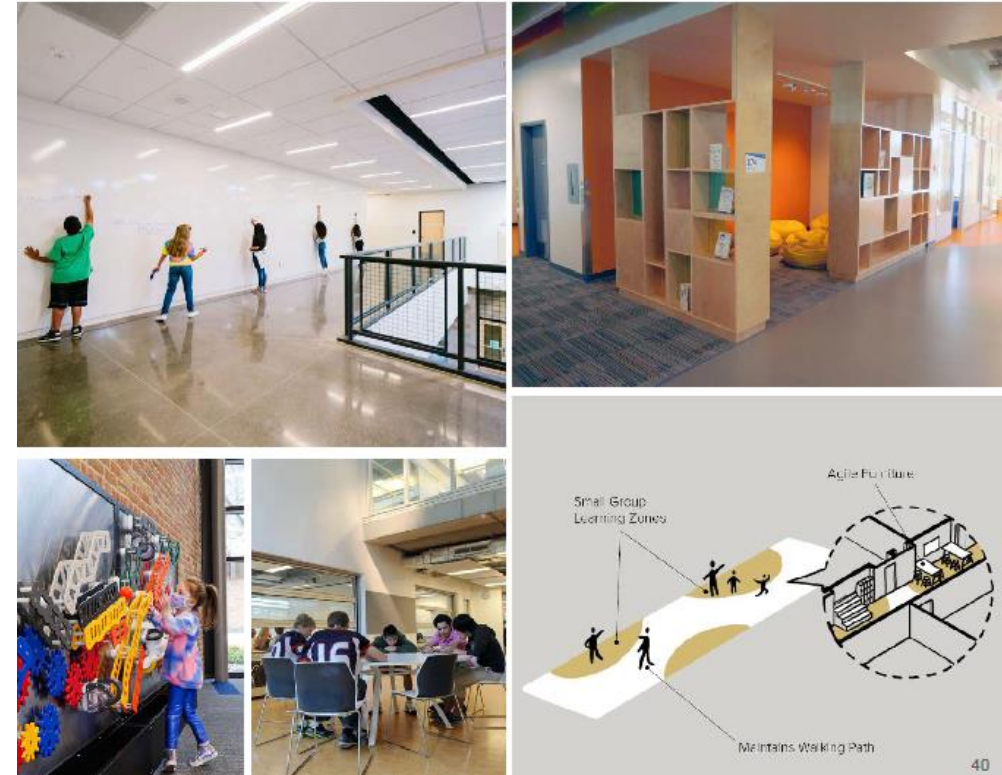
- What does a UDL classroom look, sound, and feel like? There are a number of teachers who have the mindset to address this question at ALCDSB. Bring students into the conversation to see what their needs are in shaping a UDL classroom.
- In our experience at Fielding International, UDL classrooms are de-fronted and often broken into multiple zones. They offer large amounts of choice to find the right place each person needs at any given time. It's a space that draws you in.



39

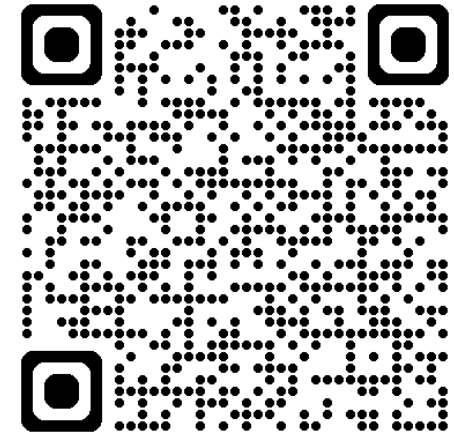
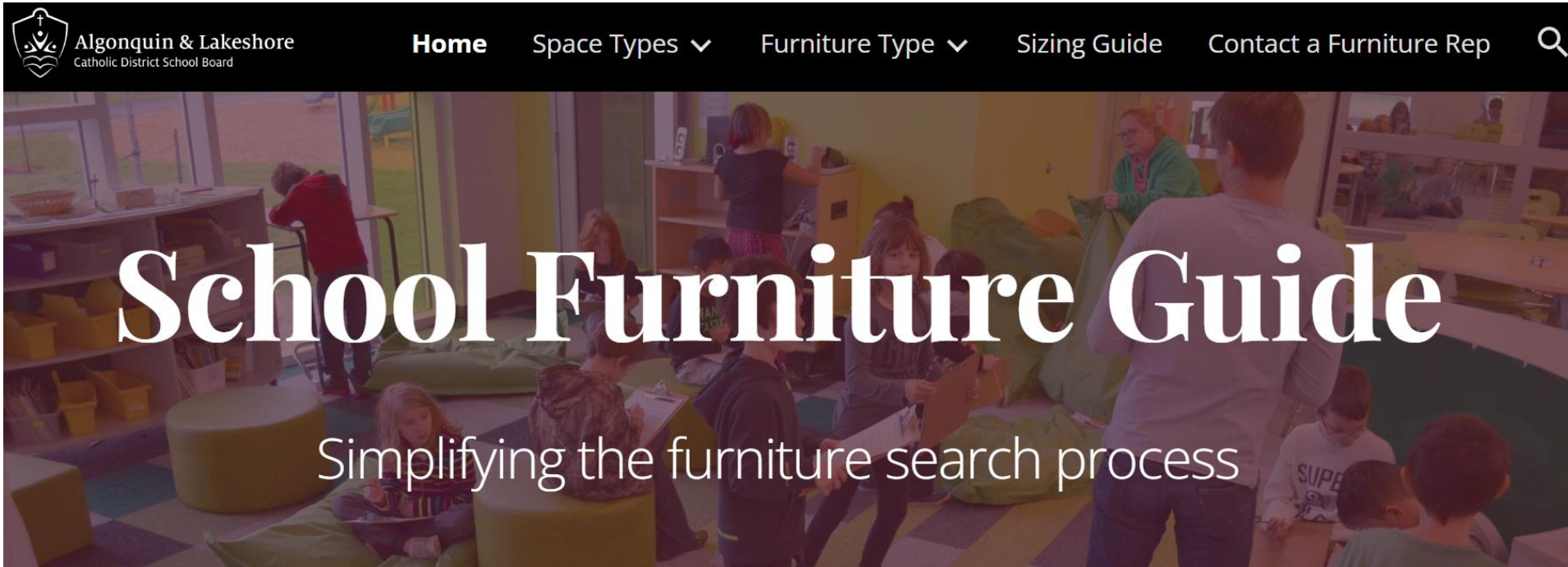
Activate Hallways

- Wherever possible, try to convert non-learning hallways into active hallways. This can be done with floor-to-ceiling whiteboard walls, interactive surfaces, carving out nooks, and creating places to sit and work. Consider trying smaller student storage rather than full-size lockers to recapture about 25% of the school as learning space. Transparency into hallway space is currently poor, which is a challenge that may need to be addressed.



40

ALCDSB School Furniture Guide



[ALCDSB School Furniture Guide](#)

Learning Studios in Action

Learning Studios function best when there is a variety of seating and work surface options that give students the autonomy to choose what suits their needs at any give time. Smaller, easily reconfigurable tables make the space versatile, adapting to accommodate a range of learning experiences.

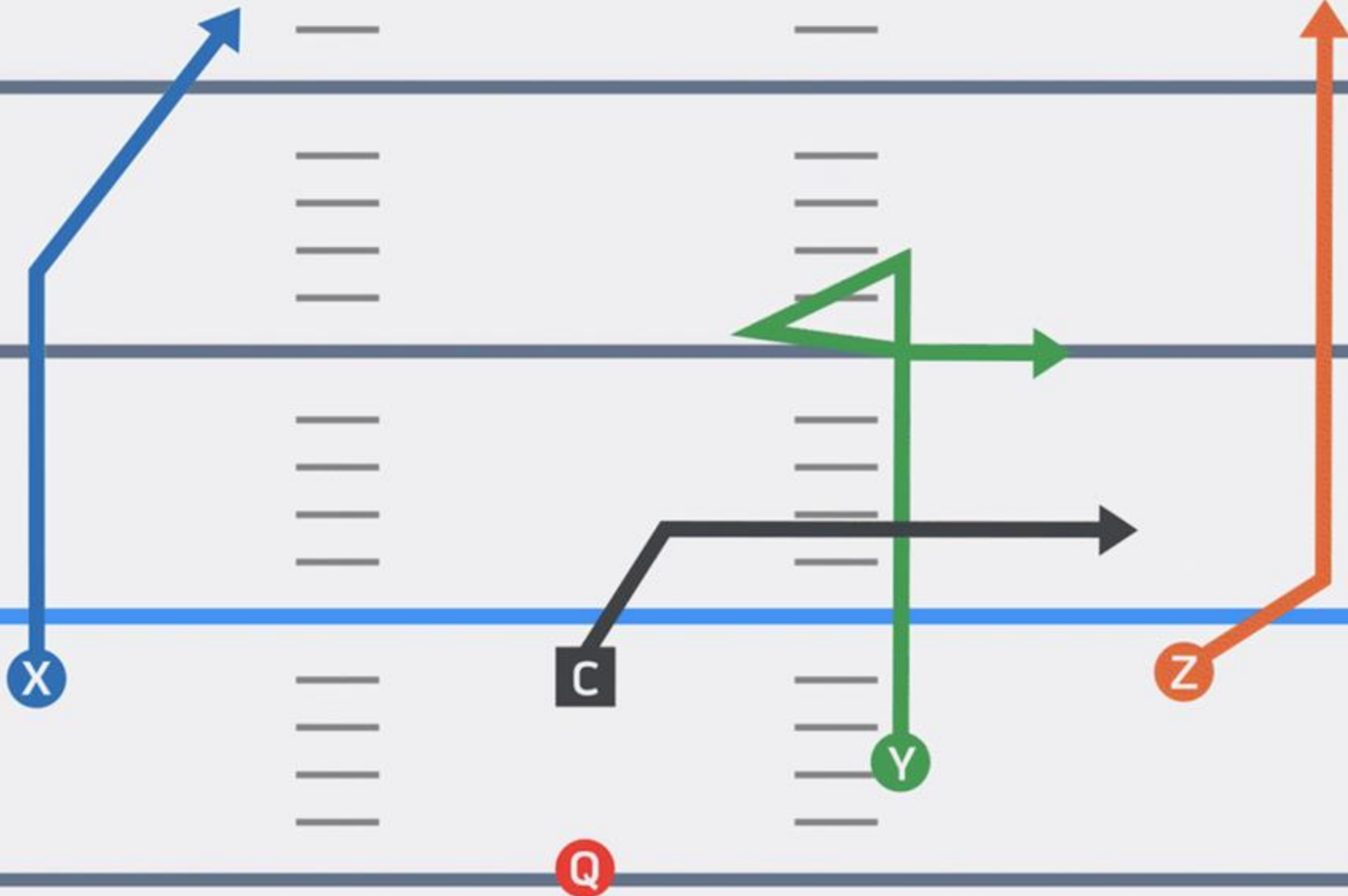
Key Components / Concepts

- Variety of Seating Options & Work Surfaces
- Combination of Fixed and Mobile Storage
- Writable Surfaces



Pedagogical Plays!

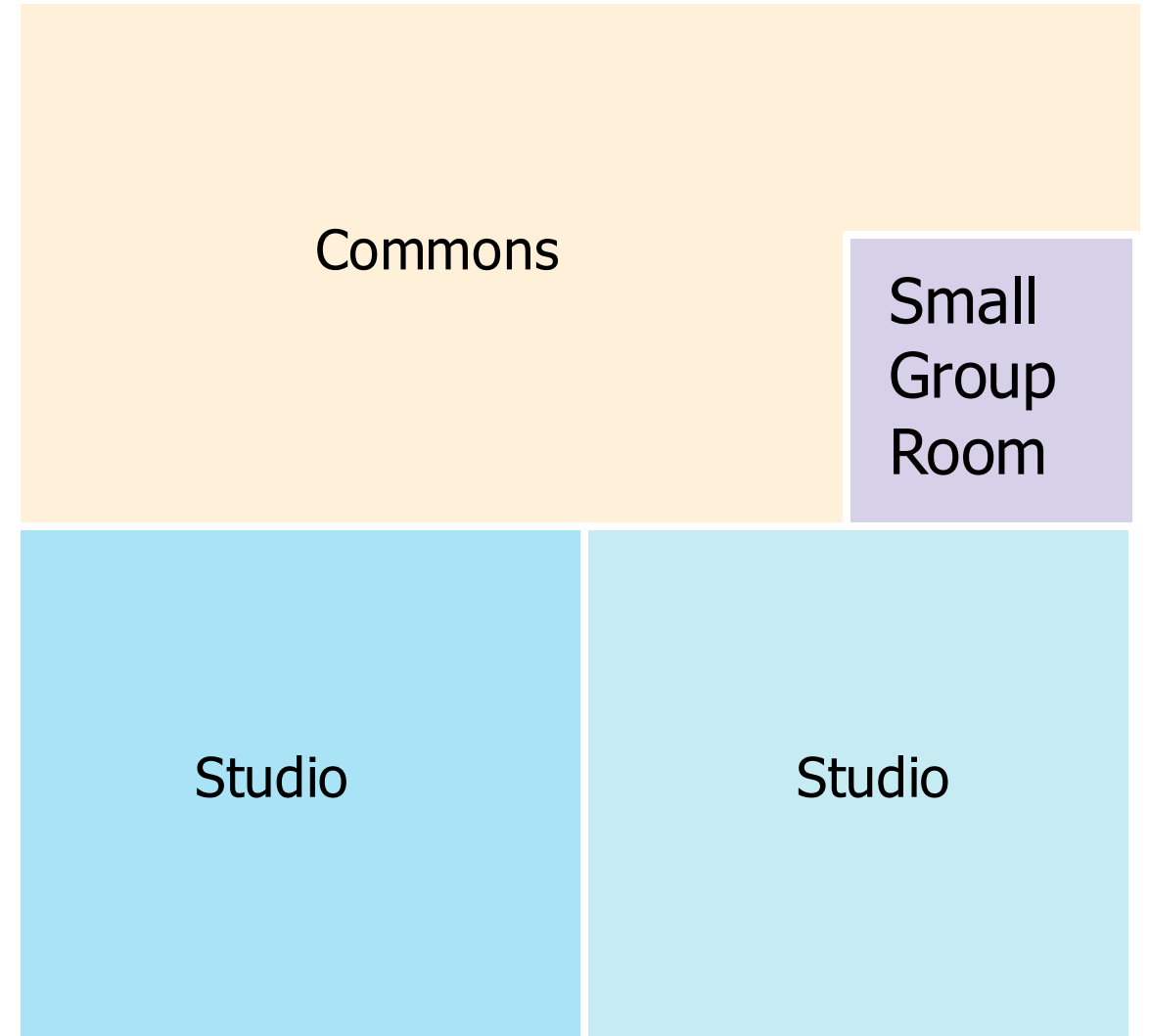
SPREAD FORMATION - PLAY 1



Pedagogical Plays intentionally use space with learner-centered pedagogy.

Each play is meant to be adaptive, in that it can be mixed and remixed to serve different purposes.

While the plays are catalyzed by flexible learning environments with a variety of spaces, most can be utilized within a traditional classroom model.

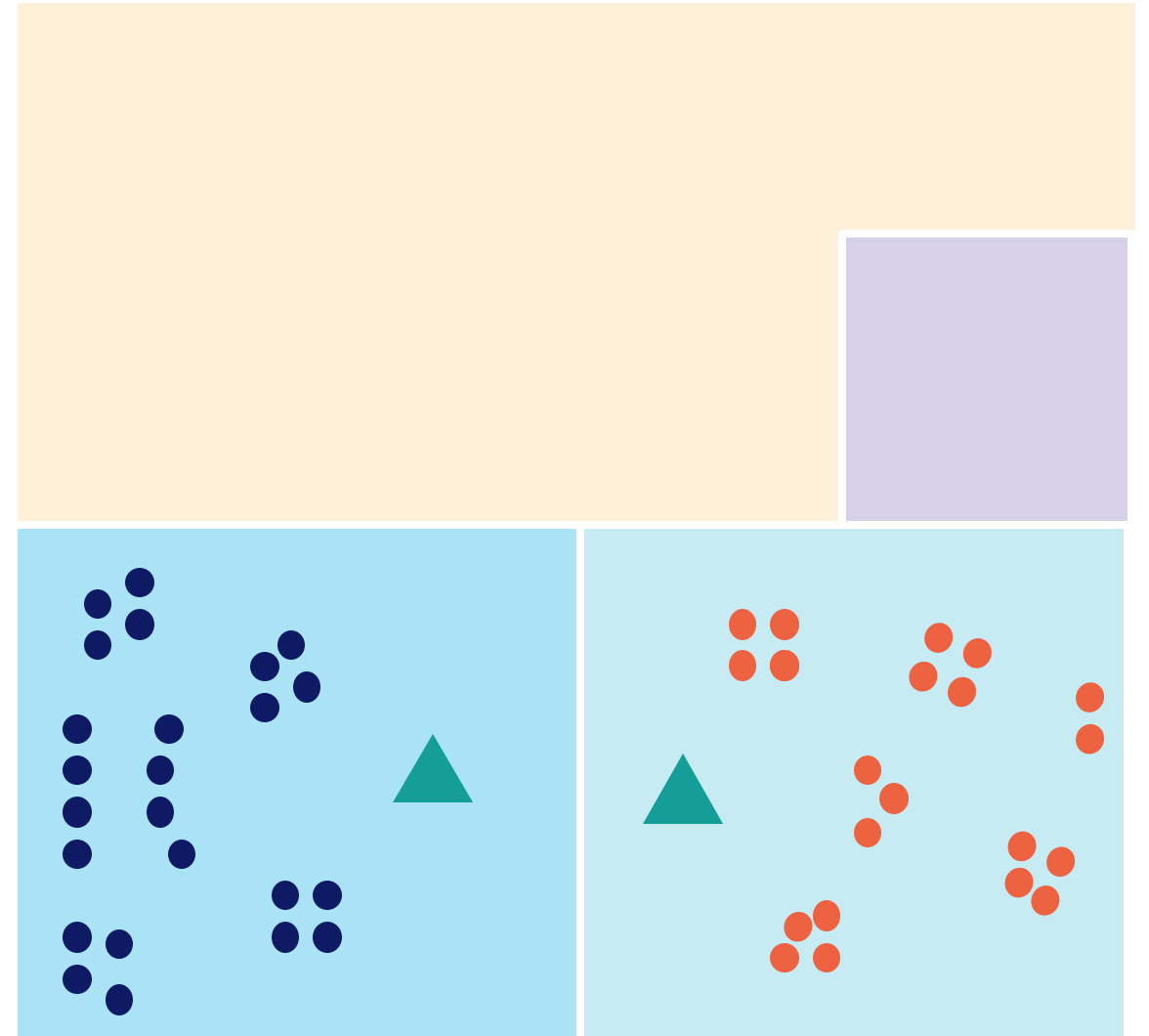


Whole Class Instruction

- Student Home 1
- Student Home 2
- ▲ Instructional Support
- ▲ Teacher

Play Description

To help get orientated, here is a play we all know well. A teacher is in a classroom with a group of students delivering instruction.

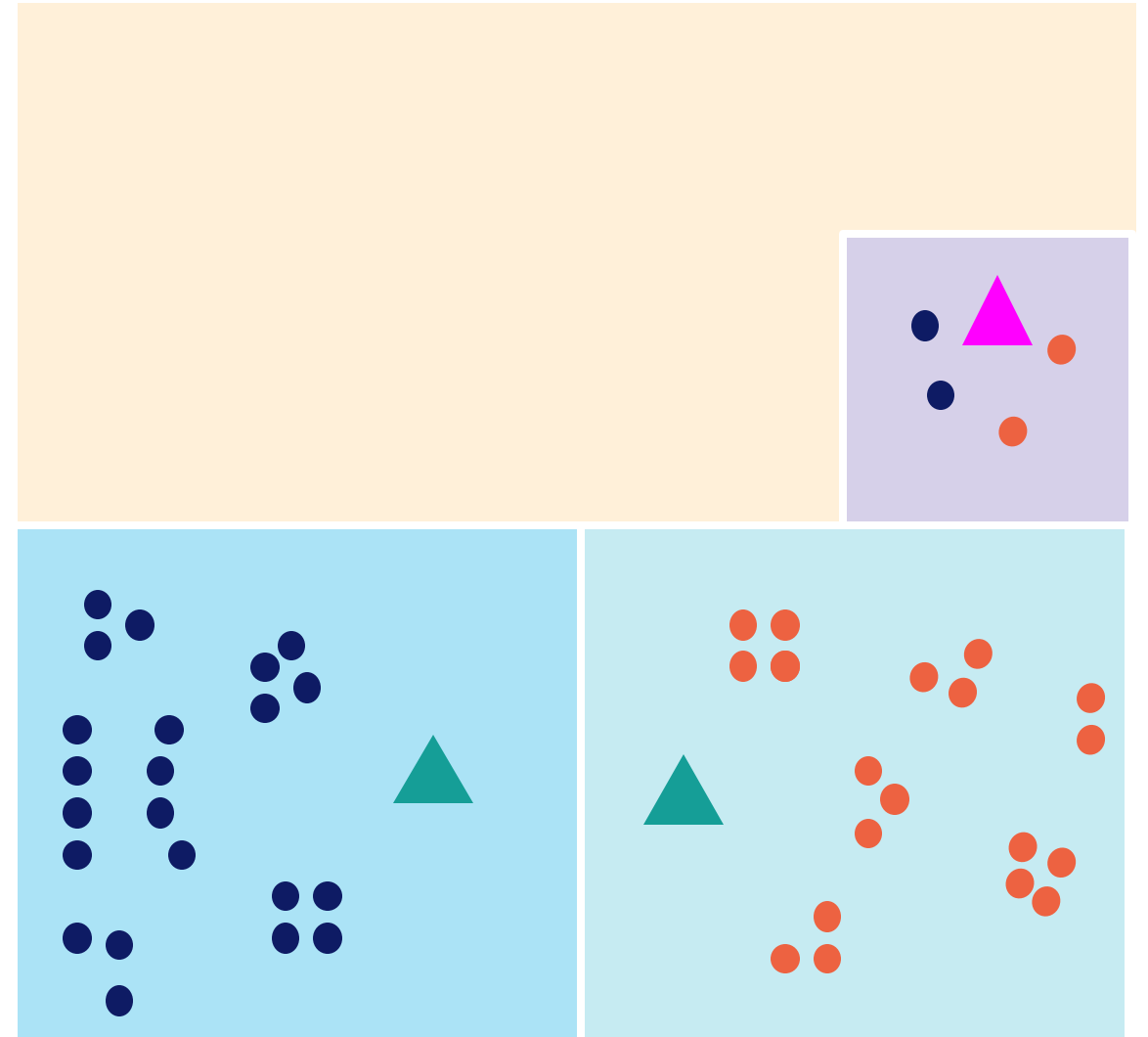


Whole Class Instruction with Pullouts

- Student Home 1
- Student Home 2
- ▲ Instructional Support
- ▲ Teacher

Play Description

This is a play we all know. Teachers are delivering instruction in their classroom while a specialist, paraprofessional, Sped Ed teacher, etc. pulls out a small group of students for a given reason.

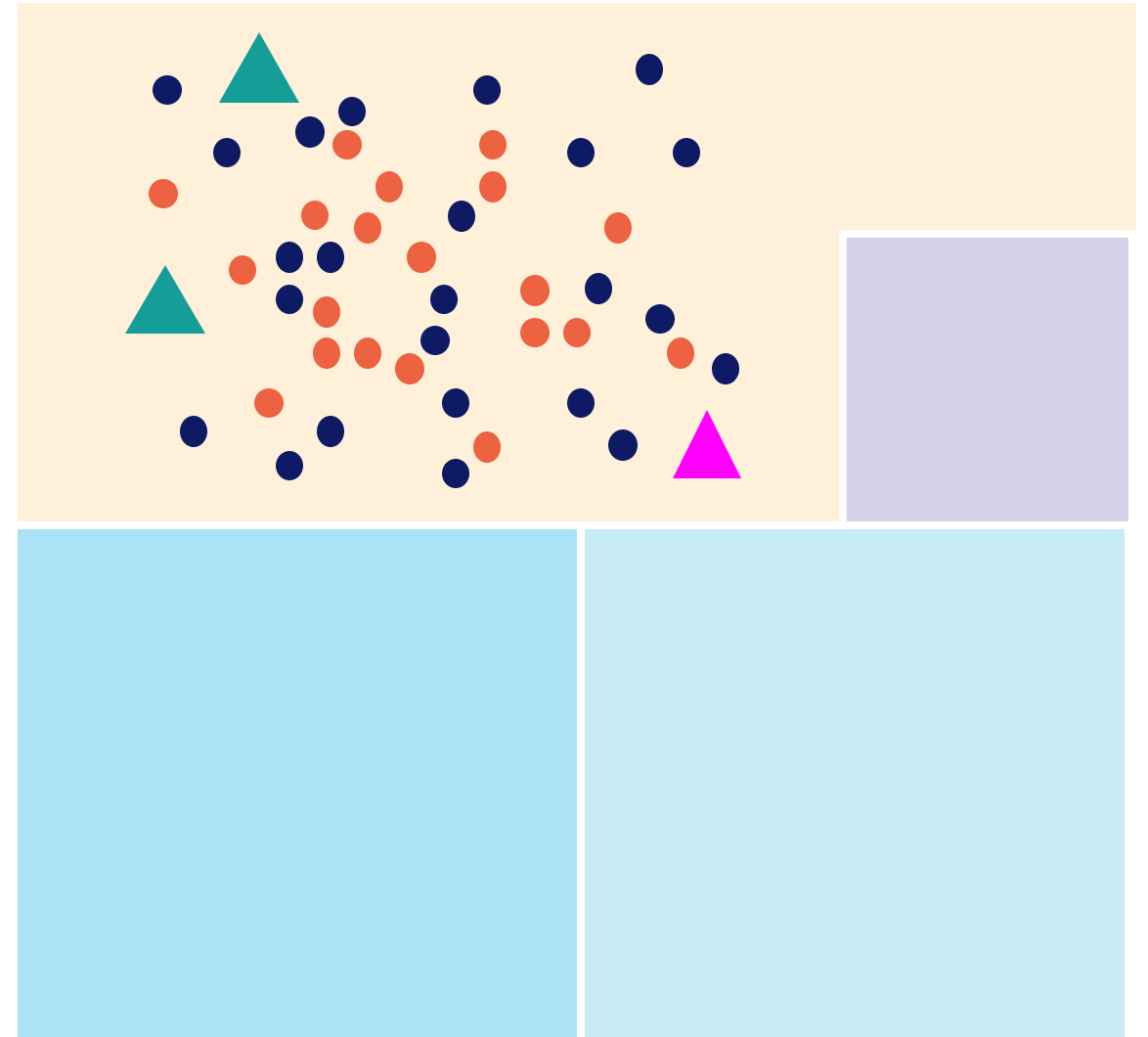


Must Do, Can Do Playlist (1 of 2) - Start

- Student Home 1
- Student Home 2
- ▲ Instructional Support Teacher

Play Description

Set up a playlist for students to complete starting in the commons. Introduce the items on the playlist and field clarifying questions. Have students complete 1 of more “must do’s,” then then check in with you when they have finished to check for mastery.

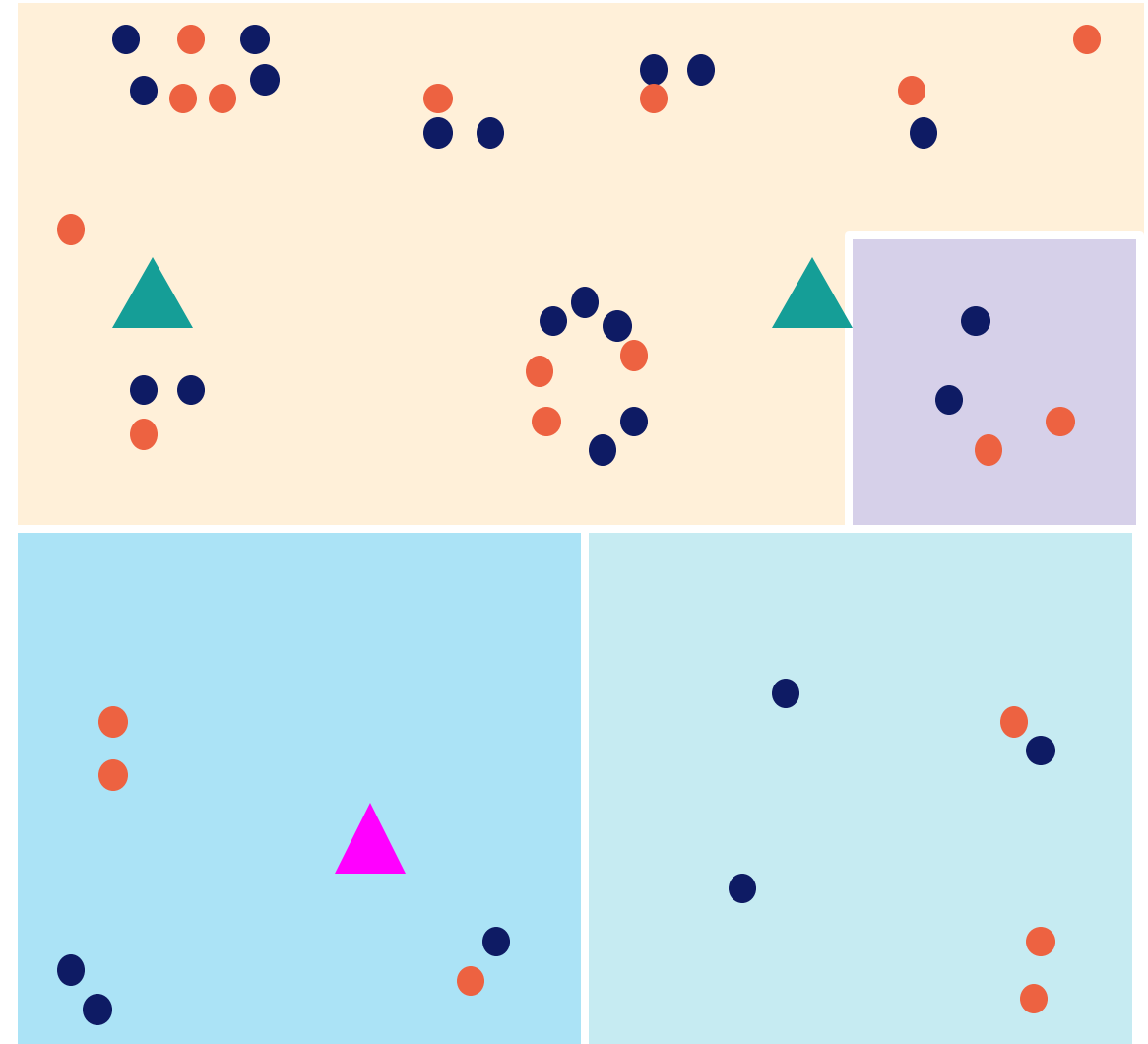


Must Do, Can Do Playlist (2 of 2) - Breakout

- Student Home 1
- Student Home 2
- ▲ Instructional Support Teacher

Play Description

Set up a playlist for students to complete starting in the commons. Introduce the items on the playlist and field clarifying questions. Have students complete 1 of more "must do's," then then check in with you when they have finished to check for mastery.





The Impact

Conventional Paradigm

The school building operates as a series of segregated, fixed learning spaces

A Classroom-based approach to learning

Corridors function as arteries to get from one place to another

School safety is mostly focused on building security

Outdoor spaces are primarily used for recess and sports

Institutional, static furniture & fixtures that tend to support lots of sitting and obedience

Good lighting and acoustics are seen as a luxury

The physical environment lacks a strong sense of local ethos, often isolated from the rest of the surrounding community

Thriving Paradigm

The school building operates as a fluid environment of connected, agile learning spaces

A community-based approach to learning

Circulation areas function as diverse learning spaces that foster connectivity and collaboration

School safety takes a holistic approach that addresses building security and each student's mental, physical, & social-emotional health

Outdoor spaces are seen as essential places to learn, connect with nature, and engage in physical activity

Comfortable, diverse, and agile furniture & fixtures that tends to support more movement and choice

Good lighting (especially natural light throughout the school) and acoustics are prioritized

The physical environment embodies local values and context, often aiming to become more of a whole community asset

What We're Proud Of (Jan to June'25)



"I can rely on you guys"

We're all there for each other even if we don't see each other

We have so much good stuff going

We've embraced a sense of positivity

overcoming the barrage of fire alarms

- they are becoming less frequent

We have a sense of humor

We're all first year teachers here, so we feel we're in this together

We're developing our own school culture

- Do people want us to fail?

We're figuring out who we are.

We made a choice to be here.

Learning from others

The Wins

- Like not feeling alone
- Improved educator mental health
- Ability to meet all students needs
- Enjoy the sense of community in the professional collaboration space
- Sense of community
- The students intuitively know how to use the space
- Kids building relationships with multiple adults
- Whole school rituals and routines
- Higher expectations for the students and their ability to regulate themselves

Change is a marathon not a sprint ... and you have to have a long-term implementation plan





Thank you!

Question Time

Our Lady of Mount Carmel Catholic School

