



New Directions symposium

WELCOME



New Directions in Education and Facilities Planning

Prakash Nair, AIA



Education Design International Name Three Major Events that Have/Will Change the Way We...

CHANGES ->

CHANGES

CHANGES

CHANGES

- Communicate
- Socialize
- Shop
- Eat
- Get Entertained
- Bank
- Travel
- Meditate
- Sleep
- Learn & Grow

The Smartphone Has the Changed the Way We...

- Communicate
- Socialize
- Shop
- Eat
- Get Entertained
- Bank
- Travel
- Meditate
- Sleep
- Learn & Grow

January 9, 2007 17 Years Young!

And for a short while...

COVID Changed the Way We...

- Communicate
- Socialize
- Shop
- Eat
- Get Entertained
- Bank
- Travel
- Meditate
- Sleep
- Learn & Grow



And Tomorrow.

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Al Will Change the Way We...

- Communicate
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In this Context. . .



What is the Purpose of Education?



Purpose of Education --Personal

- Self-Actualize
- Live a Happy Life
- Be Healthy



Purpose of Education --Societal

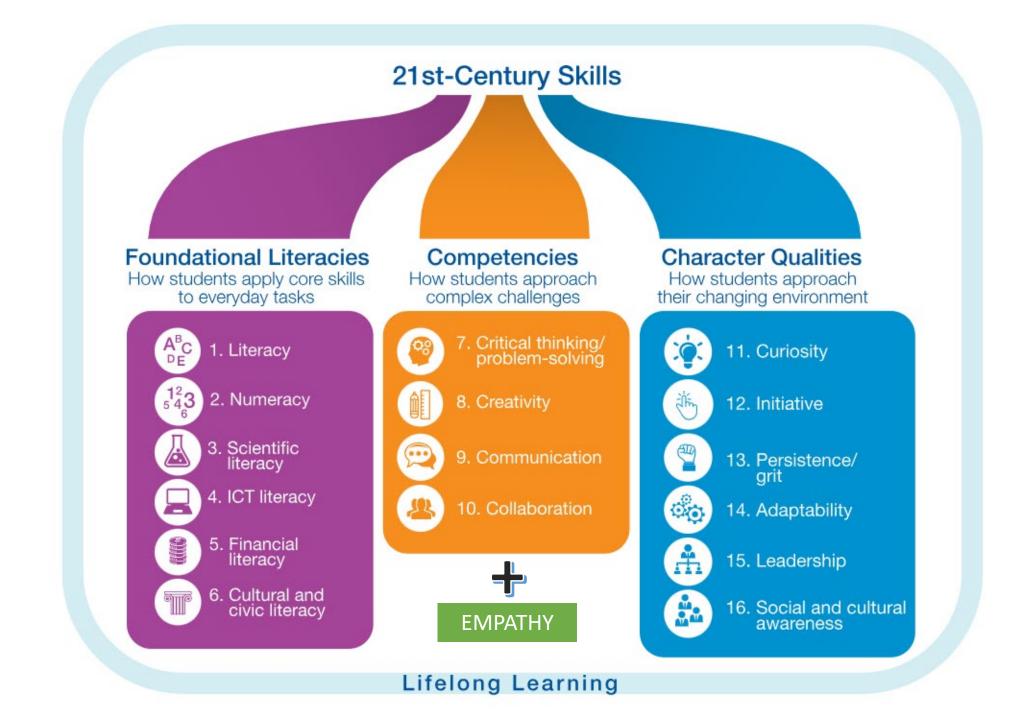
- Build a Fair & Just Society
- Live in a Peaceful World
- Take care of the planet
- Leave our children a better place than the one we inherited

Is Schooling Designed for Students to. . .

- Self-Actualize?
- Live a Happy Life?
- Be Healthy?

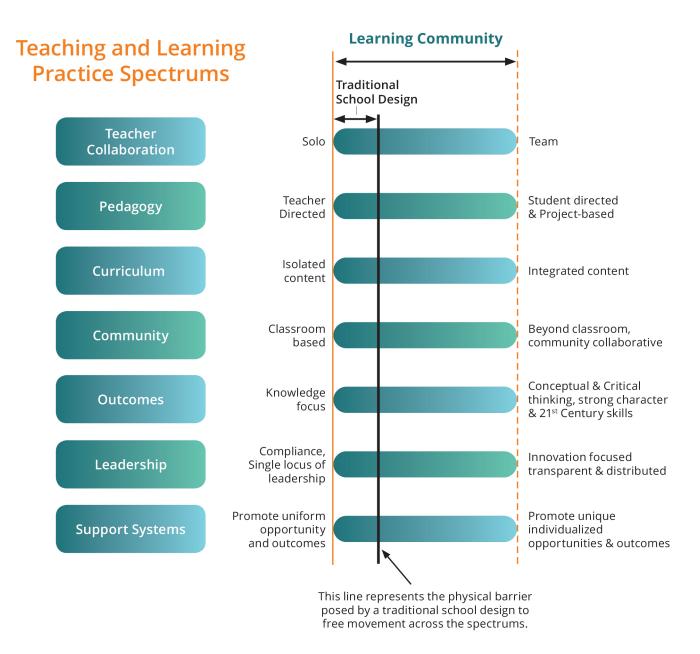
Is Schooling Designed for Students to. . .

- Build a Fair & Just Society?
- Live in a Peaceful World?
- Take Care of the Planet?
- Leave their Children a Better place than the One they Inherited?



The Tools of Schooling

- What we Learn = Curriculum
- How we Learn = Pedagogy
- Where we Learn = Classrooms
- From Whom We Learn = Teachers
- When we Learn = School Day in 50-min Increments



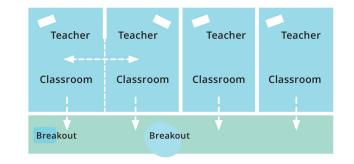
Individually Owned Rooms

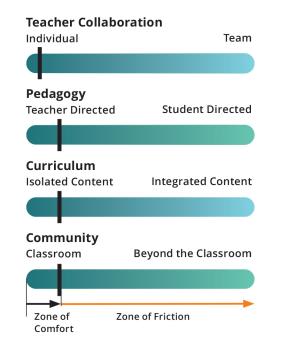
Optimized for: Individualized teaching practices, traditional structures and timetable, classroom - based community, single teacher classrooms, teacher - directed learning

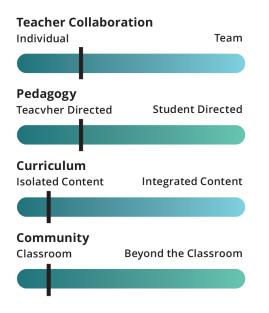
Teacher	Teacher	Teacher Teacher							
Classroom	Classroom	Classroom	Classroom						
Hallway									

Shared in a Pair

Optimized for: Pairings within grade, department & or interdisciplinary, shared unit/lesson design, co - delivery, flexible/ dynamic groupings, more varied learning modalities, shared assessment, easier for project - based, more options for breakout

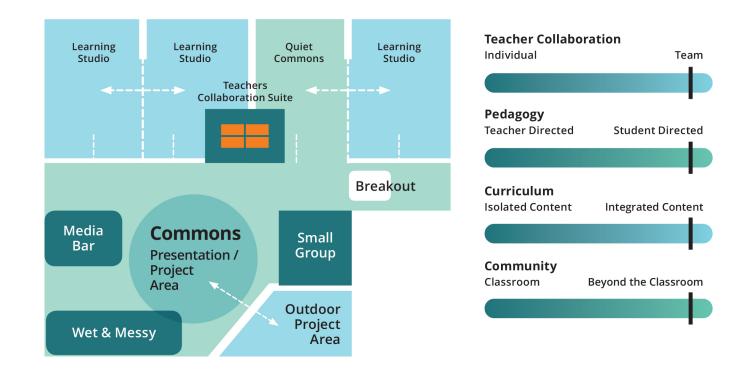






Learning Community

Optimized for: Curriculum organized around interdisciplinary themes, distributed democratic leadership, shared student responsibility, co-facilitated, cohort scheduling, highest levels of "community" and self directed learning.



KEY DESIGN DRIVER - THE 20 LEARNING MODALITIES #1-10



One on One with Teacher



Lecture



Project Based Learning



Internet Based Research



Independent Study



Mobile Technology Learning



Distance Learning



Student Presentation



Peer Tutoring



Team Collaboration

KEY DESIGN DRIVER - THE 20 LEARNING MODALITIES #11-20



Performance Based Learning



Seminar Style Instruction



Design Based Learning



Interdisciplinary Learning



Storytelling



Naturalist Learning



Social Emotional Learning



Team Learning / Teaching



Art Based Learning



Play & Movement Learning

Learning Modalities Chart -- Efficacy of Different Spatial Arrangement for Teaching and Learning

Learnin	g Modalities that Can be /ell in Space	Single Classroom	Group of Classrooms along Hallway	Single Learning Studio Older Students	Single Learning Studio Younger Children	Learning Suite (Combination of Learning Studios)	Small Learning Community
1	Independent Study						X
2	Peer Tutoring					X	X
3	One-on-one Learning with Teacher					x	x
4	Teacher Lecture	X	X	X	X	X	X
5	Team Collboration			X	X	X	X
6	Project Based Learning						X
7	Distance Learning						X
8	Learning with Mobile Technology			x	x	x	x
9	Student Presentations	X	X	X	X	X	X
10	Internet-Based Research			x	x	x	x
11	Roundtable Discussions						X
12	Performance-Based Learning						x
13	Interdisciplinary Learning				x	x	х
14	Naturalist Learning						X
15	Art Based Learning						X
16	Social-Emotional Learning					x	x
17	Design Based Learning						X
18	Storytelling				X		X
19	Team Teaching and Learning					x	x
20	Play and Movement Based Learning						
	umber of Modalities that vill Accommodate Well	2	2	5	7	10	19





AFTER



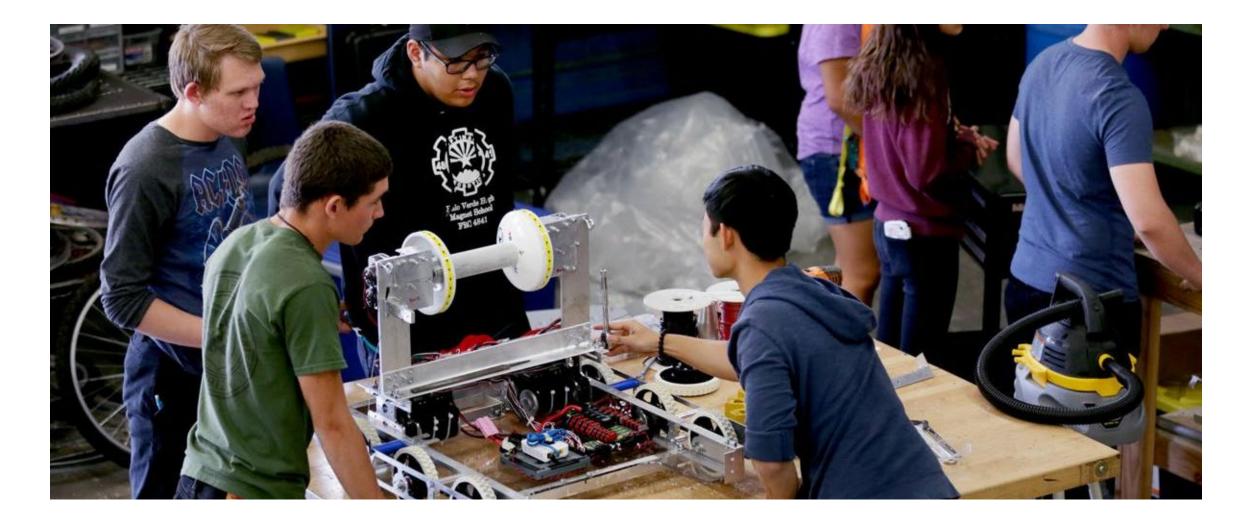


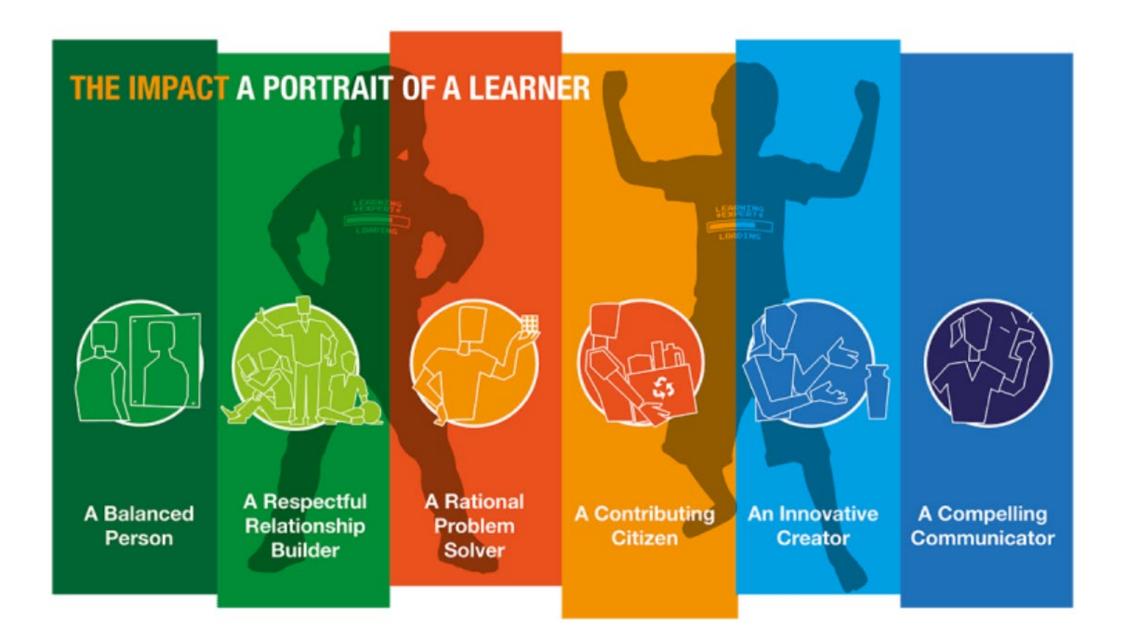




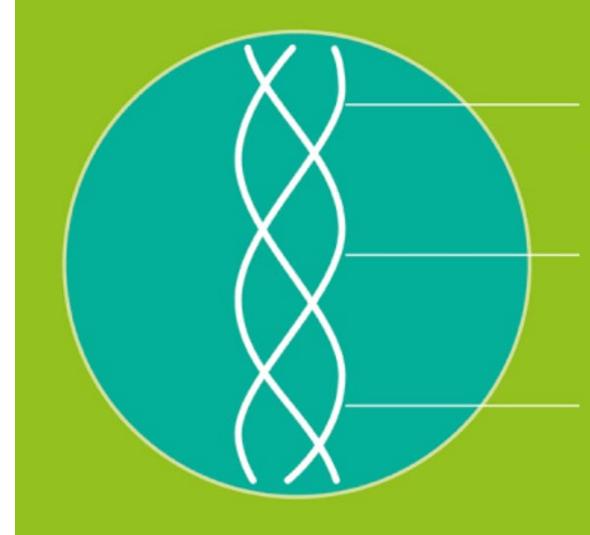


Curriculum – The Elephant in the Room





THE SYSTEM THREE Cs THE DNA OF LEARNING:



CONCEPTUAL

"WHEN WE CONNECT, CONSTRUCT, CONTRIBUTE, WE UNDERSTAND THAT..."

COMPETENCY

"WHEN WE DECONSTRUCT, IDENTIFY, PRACTICE, WE ARE ABLE TO..."

CHARACTER

"WHEN WE CONSIDER, ACT, REFLECT, WE BECOME MORE..."

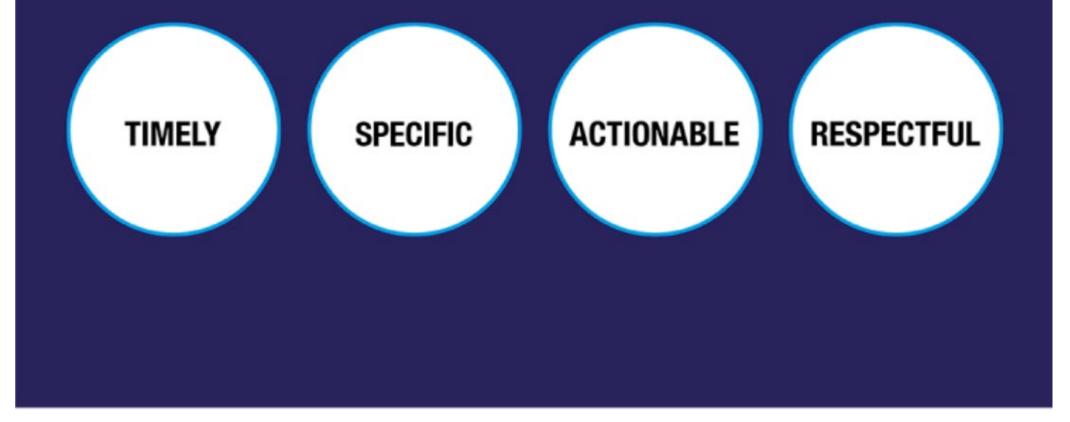
THE QUESTION HOW DOES EVERYONE ACCESS LEARNING?

DIVERSIFYING LEARNING TO CREATE INCLUSIVE, EQUITABLE, LEARNING COMMUNITIES.

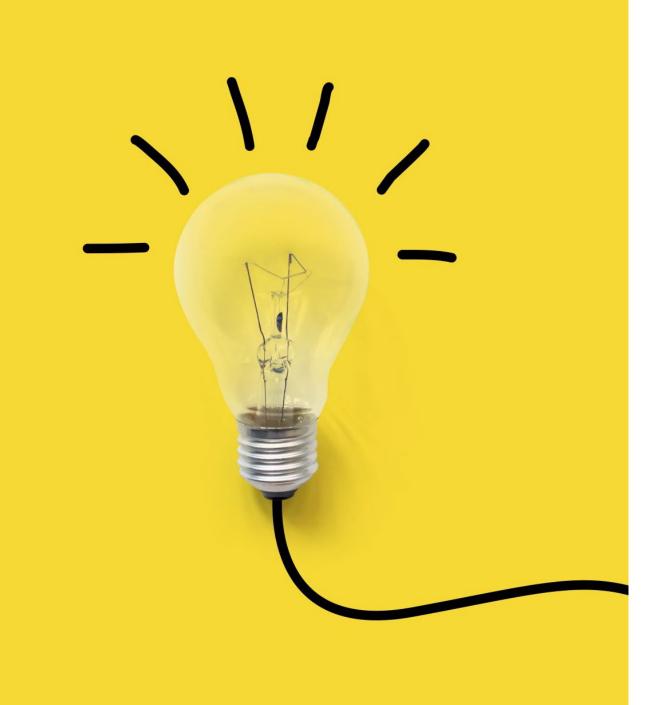
THE QUESTION HOW DO WE PROVIDE EVIDENCE OF OUR LEARNING?

WE FOCUS ON QUALITATIVE, EVIDENCE-BASED, LEARNER-CENTRED ASSESSMENT. OUR PRIMARY PURPOSE IS TO PROVIDE **FEEDBACK** TO LEARNERS TO **IMPROVE** THEIR LEARNING AND TO TEACHERS TO **INFORM** OUR PRACTICE.*

THE IMPACT EVERY LEARNER AND EVERY LEARNING PRACTITIONER BENEFITS FROM REGULAR FEEDBACK THAT IS:

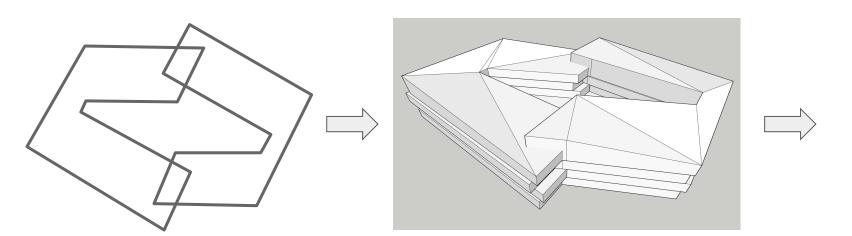


Revolutionizing Learning Spaces with AI



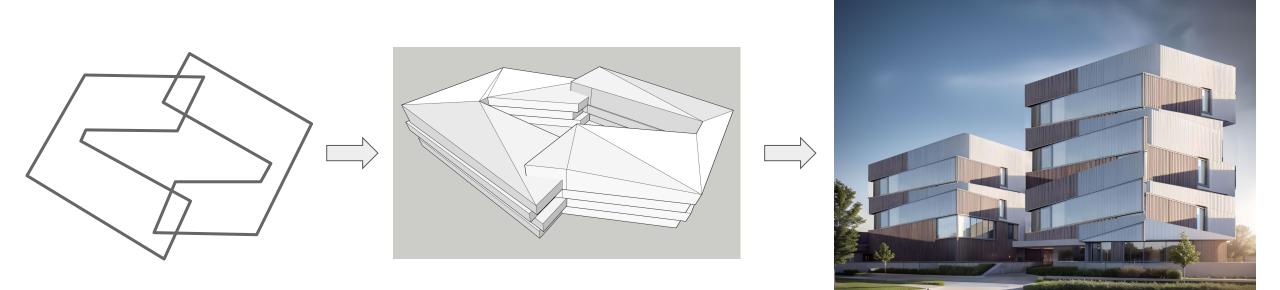
"The future of education lies in empowering young learners to embrace and develop their uniquely human qualities – those unlikely to ever be replaced by technology."

World Economic Forum, Defining Education 4.0: A Taxonomy for the Future of Learning Report. Inspired by the elegance and harmony of mathematical principles, our STEAM school's exterior facade design embraces the concept of a mathematical spiral as its guiding inspiration.



Design Concept

Inspired by the elegance and harmony of mathematical principles, our STEAM school's exterior facade design embraces the concept of a mathematical spiral as its guiding inspiration.



















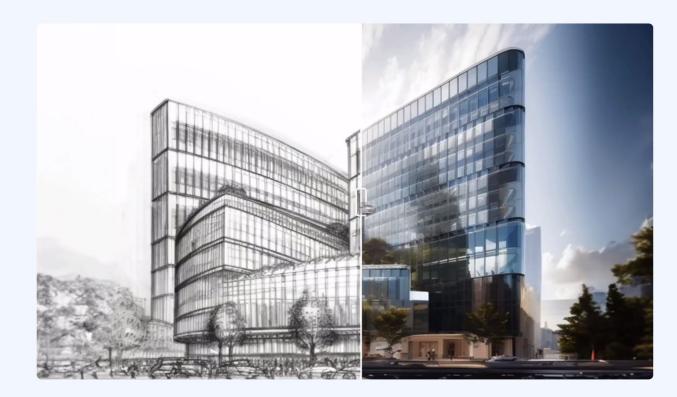




Architecture Al Design Assistant

Al Render tools for architecture and interior design. 1-click Sketch to Render in seconds.





WHAT ARE THE CONDITIONS FOR MEANINGFUL, LASTING CHANGE?

CONDITIONS FOR MEANINGFUL, LASTING CHANGE

Reorganize Students – No More Classrooms

Reorganize Teachers – No More One Teacher to 25 Students **Reorganize Schedule** – No More 50-Minute Periods

Reorganize Learning Spaces – No More Cells & Bells

AND THE ESSENTIAL PRE-CONDITIONS FOR SUCCESS?

AND THE ESSENTIAL PRE-CONDITIONS FOR SUCCESS?

- 1. Committed Leadership
- 2. Student-Centered Curriculum
- 3. Adequate & Appropriate Professional Development
- 4. Sufficient Funding

QUESTIONS?