The ProSocial Learning Environment™ and its Impact on Student Learning

- **MICHELLE COSTELLO**

- LEARNING EXPERIENCE COORDINATOR

- METEOR EDUCATION

METEOR EDUCATION
accelerating engagement

Today's Walkaways

ProSocial Learning and its Impact

Knowledge of the current research on how we learn and how the current generation prefers to learn

What are the learning experiences that engage today's students?

Creating a ProSocial Learning Environment™

How does the design of learning spaces positively impact ProSocial Learning Experiences™?

Discuss

- What do you think we mean by ProSocial Learning Experiences™?

ProSocial Learning Experiences™	Anti - Social Learning Experiences
Sounds like?	Looks like?
Feels like?	Have you experienced it?
Example?	

ProSocial Learning Experiences™

Individual Survival

Collective thriving and belonging

Today's Walkaways

ProSocial Learning and its Impact

Knowledge of the current research on how we learn and how the current generation prefers to learn

What are the learning experiences that engage today's students?

Creating a ProSocial Learning Environment™

How does the design of learning spaces positively impact ProSocial Learning Experiences™?

What do you notice about learning in these photos?

ProSocial Learning

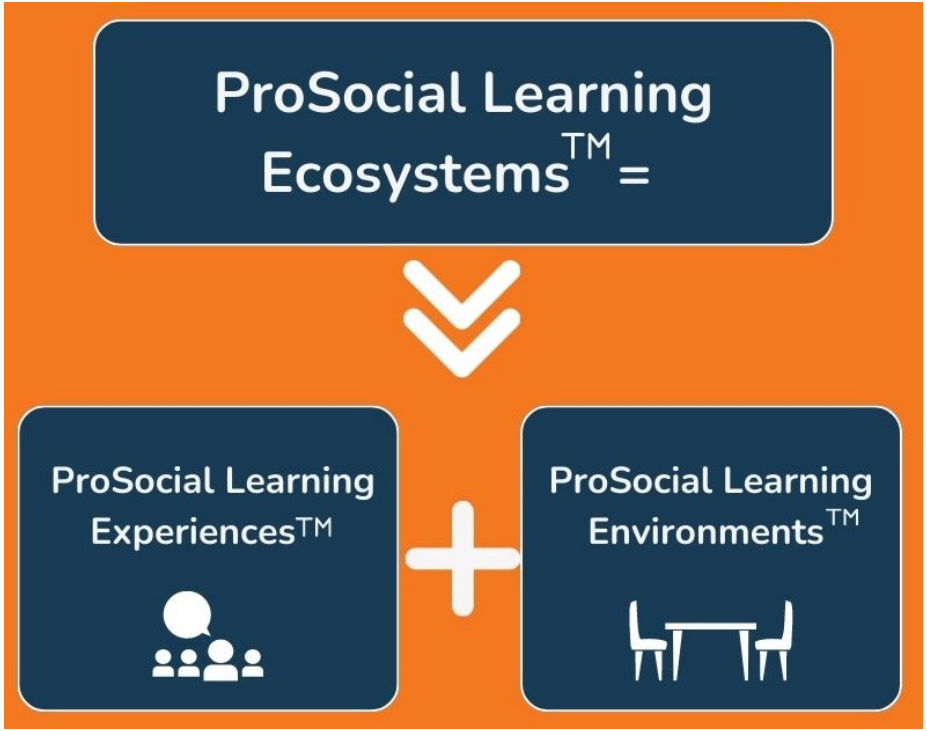
The environment becomes an Instructional Tool

ProSocial Learning is interactive.

Students sit in teams (2, 3, 4) so they can work together on learning tasks.

With ProSocial Learning, we teach in ways that help students develop:

- Social connections
- Acceptance of team members
- Caring, kind, helpful behaviors


ProSocial Learning Ecosystems™ =
ProSocial Learning Experiences™
ProSocial Learning Environments™

ProSocial Learning Experience™ Definition

Thoughtful Interactions and Behaviors

- Kind
- Sharing
- Helping
- Empathizing
- Comforting and encouraging
- Generous
- Complimenting
- Collaborating
- Teaching one another
- Teamwork

Experiential Learning Tasks

- Learning by doing
- Active involvement with teammates
- Asking questions and finding answers
- Solving problems (authentic - real-world, something that matters to me)
- Designing creative or original solutions
- Experimenting to make sense of something (productive struggle)
- Multiple types of hands-on tasks

Leads to IMPACT

Today's Walkaways

ProSocial Learning and its Impact on Students

Knowledge of the current research on how we learn and how the current generation prefers to learn

What are the learning experiences that engage today's students?

Creating a ProSocial Learning Environment™

How does the design of learning spaces positively impact ProSocial Learning Experiences™?

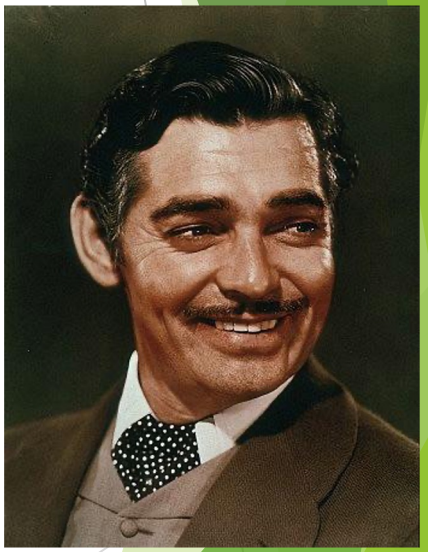
How We Learn

How does the brain process information?

Brain Test: Our Brains At Work

A

B



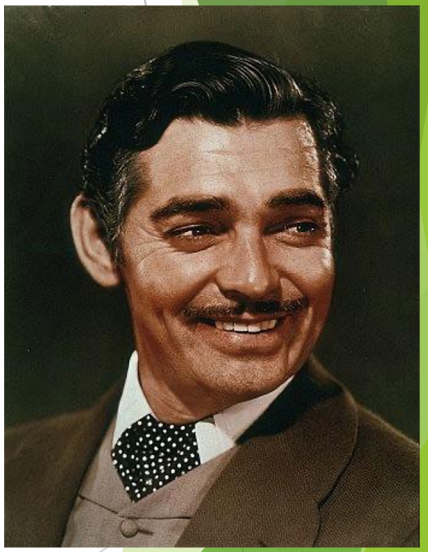
C

Our Brains At Work :

Processing associations
Recalling information
Making something new

A (Beyonce)

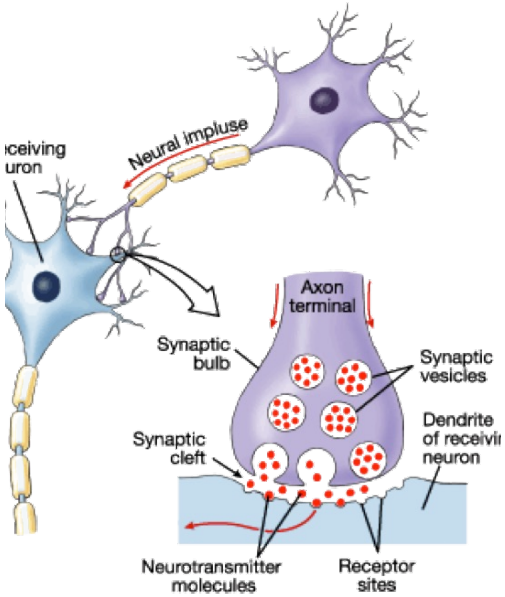
B (Elizabeth Taylor)



C (Clark Gable)

Schema: interconnected networks of background knowledge

Neurotransmitters



- Neurons are firing information about the visual images from long-term memory to working memory to identify the people

- If you did not have prior knowledge on any of the people, there was nothing to retrieve from storage

- You have roughly 100 billion neurons, allowing you to store and retrieve billions of pieces of information

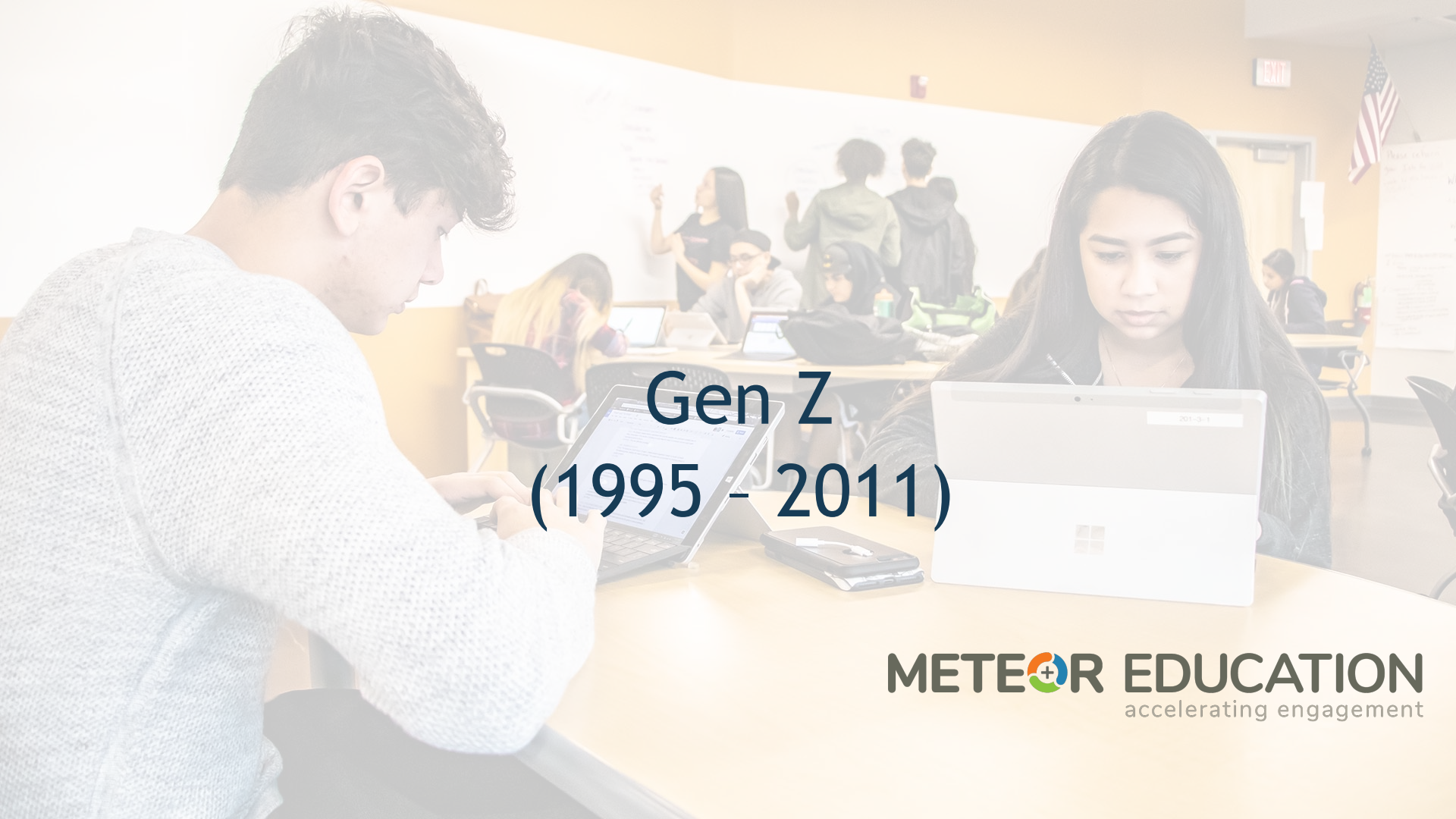
What do young brains crave?

Learning does not increase the number of brain cells you have. It increases their size, branches, and their ability to form more complex networks.

Learning is acquiring new knowledge and using it to create even more.

Memory is about retaining information to transfer to new learning.

- How do today's learners want to learn?
- How do we ensure they transfer information?



Gen Z
(1995 - 2011)

METEOR EDUCATION
accelerating engagement

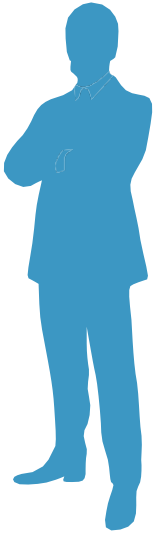
DON'T MISTAKE THEM FOR MILLENIALS

GENERATION Z

- **5** screens
- Communicate with **images**
- **Create** things
- **Future**-Focused
- **Realists**
- Want to **work for success**

VS

MILLENIALS



- **2** screens
- Communicate with **text**
- **Share** things
- Focused on the **Present**
- **Optimists**
- Want to **be discovered**

30% watch lessons online.

20% read textbooks on tablets.

30% work with classmates online.

50% use YouTube/Social Media for research assignments.

Alpha Generation (2011 – 2025)

METEOR EDUCATION
accelerating engagement

Alpha Generation

- New Kids on the Block
- Known as the iGeneration
- Likely to be the wealthiest, most highly educated, and technologically literate in history

GEN ALPHA

BORN 2010 [same year as iPad]

YOUNG ACTIVISTS

3 in 4 believe it is important to speak out about causes they believe in.

1 in 5 have taken part in a march or protest.

QUESTIONING, INFORMED, ACTIVISTS

DIGITAL MASTERS & CRITICAL CONSUMERS

3 in 4 are confident using the internet on their own whilst only 58% of their parents think their kids are capable.

58% are anti-sharenting "my parents shouldn't post pictures of me online" but 60% of their parents would post without permission.

73% question things they see and read on the internet.

2 in 3 think YouTubers do things they don't agree with.

CONFIDENT, KNOWLEDGEABLE, GUARDIANS OF THEIR OWN TECH SEL...

CREATIVE ENTREPRENEURS

86% ENJOY MAKING THINGS	**4 in 5** ENJOY MAKING SLIME	**2 in 3** ENJOY CREATING THEIR OWN GAMES / WORLDS
55% ENJOY CREATIVE VIDEO MAKING	**47%** ENJOY TINKERING WITH ELECTRONICS	**20%** ALREADY MAKING MONEY FROM HOBBY / TALENT

“Learning” Behaviors (for Today’s Students)

- Friendship Driven, Peer-based
- Interest Driven, Participation
- Social, Networked
- Intergenerational
- Personal Creativity

How should we connect with the current generations ?

Communicate

Communication with Generation Z/ Alpha should be visual and aimed towards diverse audiences.

Short

Keep communication/content short. Think “stackable content”.

Feed Curiosity

Empower Generation Z / Alpha by providing them control over choices of preference and settings.

Connect

Connect Generation Z Alpha to technology of various types.

Inspire

Generation Z / Alpha needs to be inspired; reacting best when given social causes to rally behind.

Educate

Generation Z / Alpha wants to build their expertise.

Today's Walkaways

ProSocial Learning and its Impact

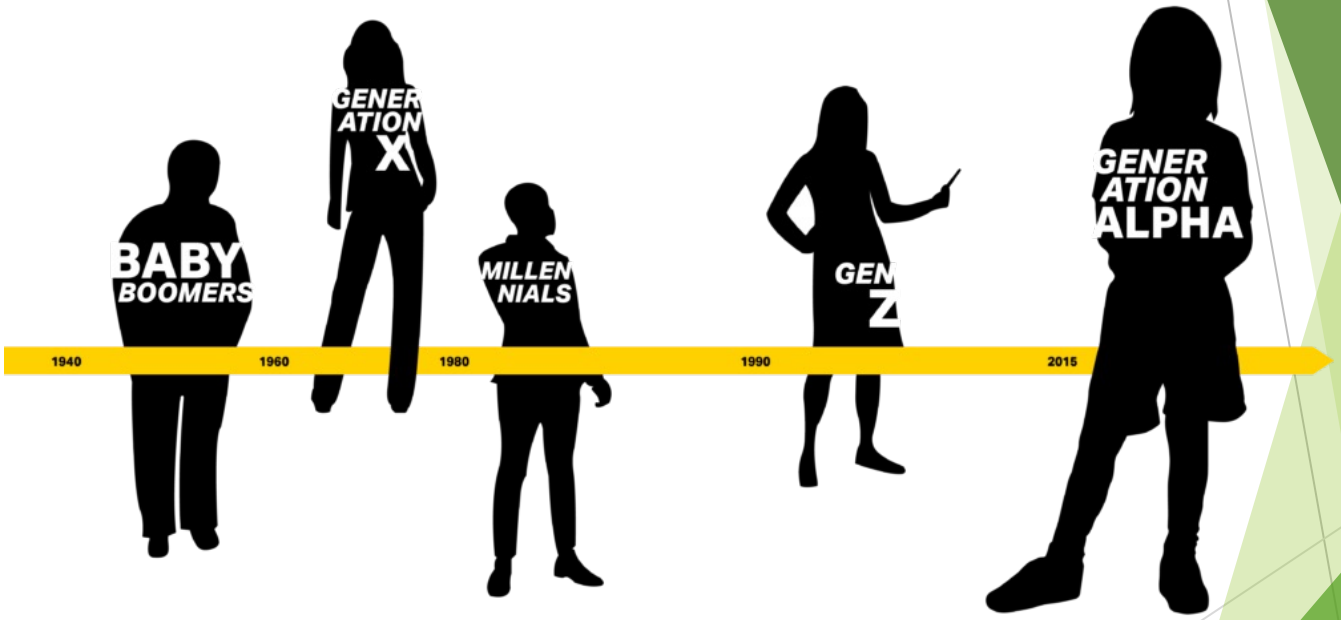
Knowledge of the current research on how we learn and how the current generation prefers to learn

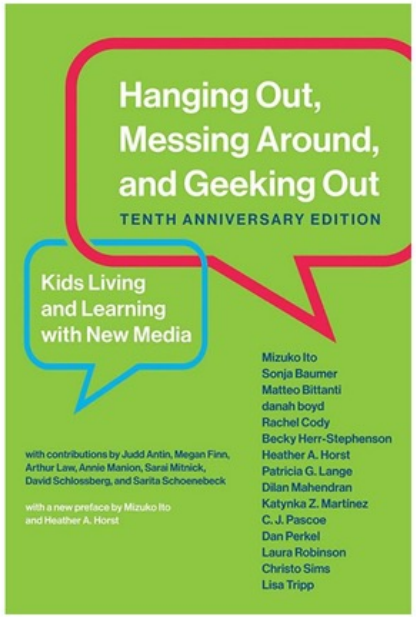
What are the learning experiences that engage today's students?

Creating a ProSocial Learning Environment™

How does the design of learning spaces positively impact ProSocial Learning Experiences™?

Generations…are we *that* different?





Research funded by the MacArthur Foundation

“Hanging Out” Behavior

- Distant Relationships
- Social/Collaborative
- Sharing/Networking
- Personal Interests
- Peer Engagement

“Messing Around” Behavior

- Use tools to Explore Interests
- Modality of Learning
- Fortuitous Searching
- Start Focused Engagement
- Tinkering – Time/Space to Explore

“Geeking Around” Behavior

- Find passion, intense engagement/rewrite the rules
- Use social network to make connections/network with professionals
- Focus on media/genre of technology
- Self directed/larger than the tools

What is Available in Schools?

- A Culture of Dependency on:
- Textbooks
- Tests
- Teachers

- Get the GRADE and get OUT!

- This focus is on “lower order thinking skills” and short-term recall of information.

  - -Ian Jukes

EDUCATION & SOCIETY
aspen institute

- We experienced educational policy in the 1980s-early 2000s designed to increase America's competitiveness
- Today, job growth and wage increases are most robust in roles that require interpersonal "people skills" and technical knowledge
- The labor market is being disrupted by automation and increased use of artificial intelligence
- Many previously needed skills are becoming obsolete and replaced by new demands more quickly than ever before

Three Primary Purposes for Public Education

Developing a Sense of Self

Preparing for American Democracy and Civic Life

Preparing for the World of Work

https://www.aspeninstitute.org/publications/we-are-what-we-teach-re-envisioning-public-education-for-a-just-free-and-prosperous-america/

Team Task: Choose and Rank the TOP 5 Skills for 2025….

- Technology design and programming (A)
- Systems analysis and evaluation (B)
- Complex problem-solving (C)
- Resilience, stress tolerance and flexibility (D)
- Creativity, originality and initiative (E)
- Leadership and social influence. (F)
- Technology use, monitoring and control (G)
- Analytical thinking and innovation (H)
- Critical thinking and analysis (I)
- Reasoning, problem-solving and ideation (J)
- Service orientation (K)
- Troubleshooting and user experience (L)
- Emotional intelligence (M)
- Active learning and learning strategies (N)
- Persuasion and negotiation (O)

• Source: Future of Jobs Survey 2020, World Economic Forum.

METEOR EDUCATION
accelerating engagement

Top 15

1. Analytical thinking and innovation (H)
2. Active learning and learning strategies (N)
3. Complex problem-solving (C)
4. Critical thinking and analysis (I)
5. Creativity, originality and initiative (E)
6. Leadership and social influence (F)
7. Technology use, monitoring and control (G)
8. Technology design and programming (A)
9. Resilience, stress tolerance and flexibility (D)
10. Reasoning, problem-solving and ideation (J)
11. Emotional intelligence (M)
12. Troubleshooting and user experience (L)
13. Service orientation (K)
14. Systems analysis and evaluation (B)
15. Persuasion and negotiation (O)

METEOR EDUCATION
accelerating engagement

The Future of Work and the Jobs we Might Have in 2040

A shift towards automation will free people to be more creative, so parents should encourage youngsters to think originally

Human-centered Designers and Ethicists

Activist Artists and Creators

Data Economy Scientists and Brokers

Robot therapists

Robot translators

*"AI will not be good at creative problem solving, empathetic reasoning, philosophical debate and the human group dynamics of collaborating for a very long time. **Deep human connection, empathy, curiosity** - very human things - will be vital. Our human inquiry is still going to steer the ship."*

https://futurist.com/2022/05/16/the-future-of-work-and-the-jobs-we-might-have-in-2040/

METEOR EDUCATION
accelerating engagement

A New Destination

- High Concept, High Touch Economy
- Empathy
- Creativity
- Adaptability
- Insight
- Emotional Intelligence

LEARNER ENGAGEMENT

- PROXIMAL CONNECTION
- SOCIAL CONNECTION
- COGNITIVE CONNECTION
- EMOTIONAL CONNECTION

Designing Educational Spaces for the Next Generation

Today's Walkaways

ProSocial Learning and its Impact

Knowledge of the current research on how we learn and how the current generation prefers to learn

What are the learning experiences that engage today's students?

Creating a ProSocial Learning Environment™

How does the design of learning spaces positively impact ProSocial Learning Experiences™?

ProSocial Learning Environment™

1

LEARNING PODS

Students sit or stand **eye-to-eye** and **knee-to-knee** in teams of **2, 3, and 4** to easily engage in respectful communication, real-world collaboration, and hands-on experiences with a common set of resources.

2

DYNAMIC PLACE

Students benefit from agile spaces equipped for **fluid learner movement** and **correct ergonomics** to maximize interactions, minimize transitions, offer greater comfort and safety, and deliver easy and quick flexibility.

3

ACTIVITY ZONES

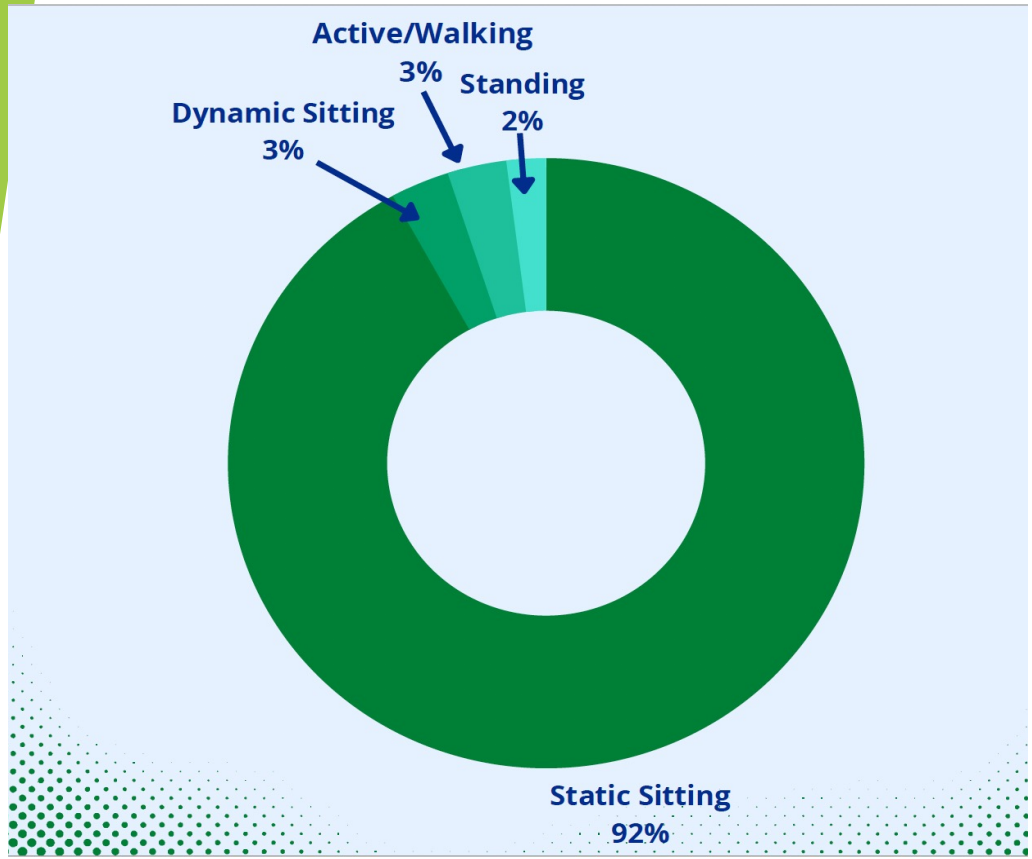
Students enhance their learning in areas designed for experiential activities that **maximize social interaction** and **cognitive development** through multiple learning modalities and access for integration of technology.

4

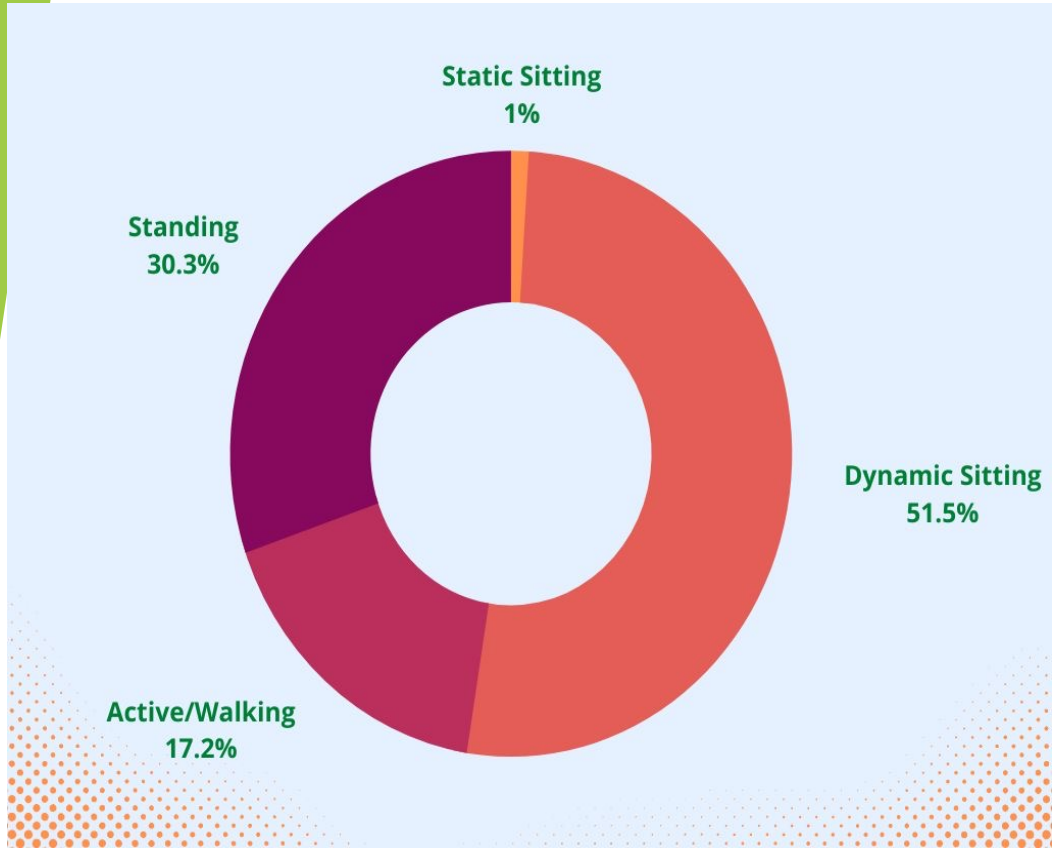
TEACHER SPACES

Students gain when the finite resource of space for learning experiences is balanced between stakeholders. Teacher space for **focused planning** and proximity to teams helps learners in their journey while mobile **storage improves adaptability** from year to year.

ProSocial Learning Environment™



Traditional Classroom



Active Space (ProSocial Learning Environment™)

ProSocial Learning Environment™

Today's Walkaways

ProSocial Learning and its Impact

Knowledge of the current research on how we learn and how the current generation prefers to learn

What are the learning experiences that engage today's students?

Creating a ProSocial Learning Environment™

How does the design of learning spaces positively impact ProSocial Learning Experiences™?

What trends are you currently noticing?

Technology + Collaboration

- Classrooms of tomorrow for students of today
- Relevant Environments
- Access to technology and people

Principal Approval Initial_____

Autonomy of Learning Spaces

Principal Approval Initial_____

Metro Environments reflect our local studio's installations. Pricing excludes delivery, installation or taxation fees due to variances in state contracts, location assessments and scale factors. 2020 copyright. MME's are intended as idea starters for Meteor clients. All Images and information may only be shared with written permission from Meteor Education. All rights reserved.

METEOR EDUCATION

Media Center

- No longer a space solely to house books for students to come in and read
- Multiple spaces within the area with a variety of functions
  - Central gathering hub
  - Informal nooks around the outside of the space
  - Large worksurfaces for project development
- Making determinations around which print books are moving to a digital platform and which are remaining in print form
  - Encyclopedias / Reference Materials
  - High- Engagement Books such as graphic novels

Principal Approval Initial_____

Café Spaces

- Typical School

- On Trend

Principal Approval Initial_____

Outdoor Learning

There are many benefits to outdoor learning. **"Hands-on outdoor learning builds confidence and resilience and offers opportunities for collaboration which increase connection and engagement."** (Green Schoolyards America, pg. 2)

Principal Approval Initial_____

METEOR EDUCATION

eSports/ Gaming

In 2021, more than $16M in esports scholarships were awarded by US colleges.

Principal Approval Initial_____

METEOR EDUCATION

We can achieve what we can imagine...

Connections, Comments, or Questions…

Today's Walkaways

ProSocial Learning and its Impact

Knowledge of the current research on how we learn and how the current generation prefers to learn

What are the learning experiences that engage today's students?

Creating a ProSocial Learning Environment™

How does the design of learning spaces positively impact ProSocial Learning Experiences™?