

# EDspaces

Designing the Future of Education  
Charlotte, NC | November 7-9, 2023

## Education Spaces to support Mental Health

Nov 7, 2023 4:00-5:00pm



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- Link between Physical Environment and Educational Outcomes

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## Early Career: Case Worker

- Butler County Board of Developmental Disabilities
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# Today's Takeaways

I hope you will be better able to answer these questions:

**Levers:** What are some conditions a school could change to address the decline in youth mental health?

**Metrics:** What observable changes in school behaviors would we expect to see if student mental health improves?

**Trends:** What initiatives are schools currently taking to address youth mental health?

**Spaces:** How can school spaces help?

2:00

1:30

1:00

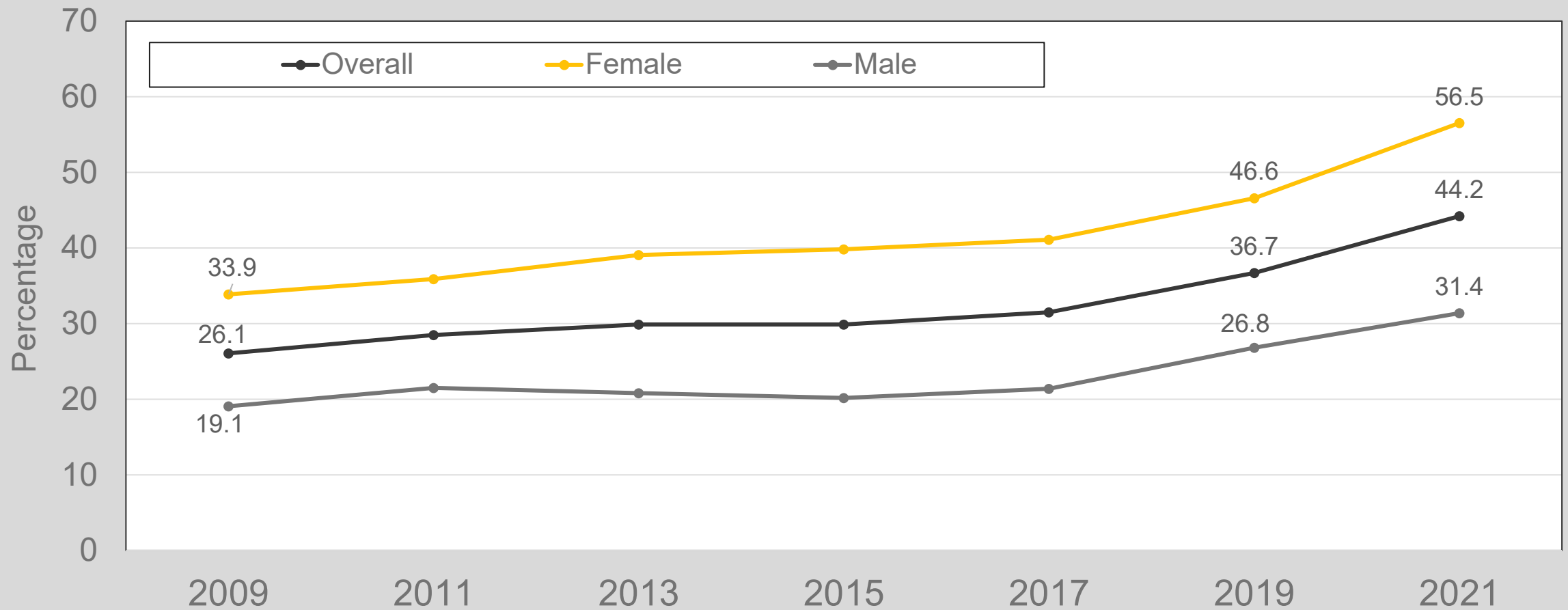
0:30



# Student Issues

- Summary of the Problem
- Behaviors that correlate with the Problem

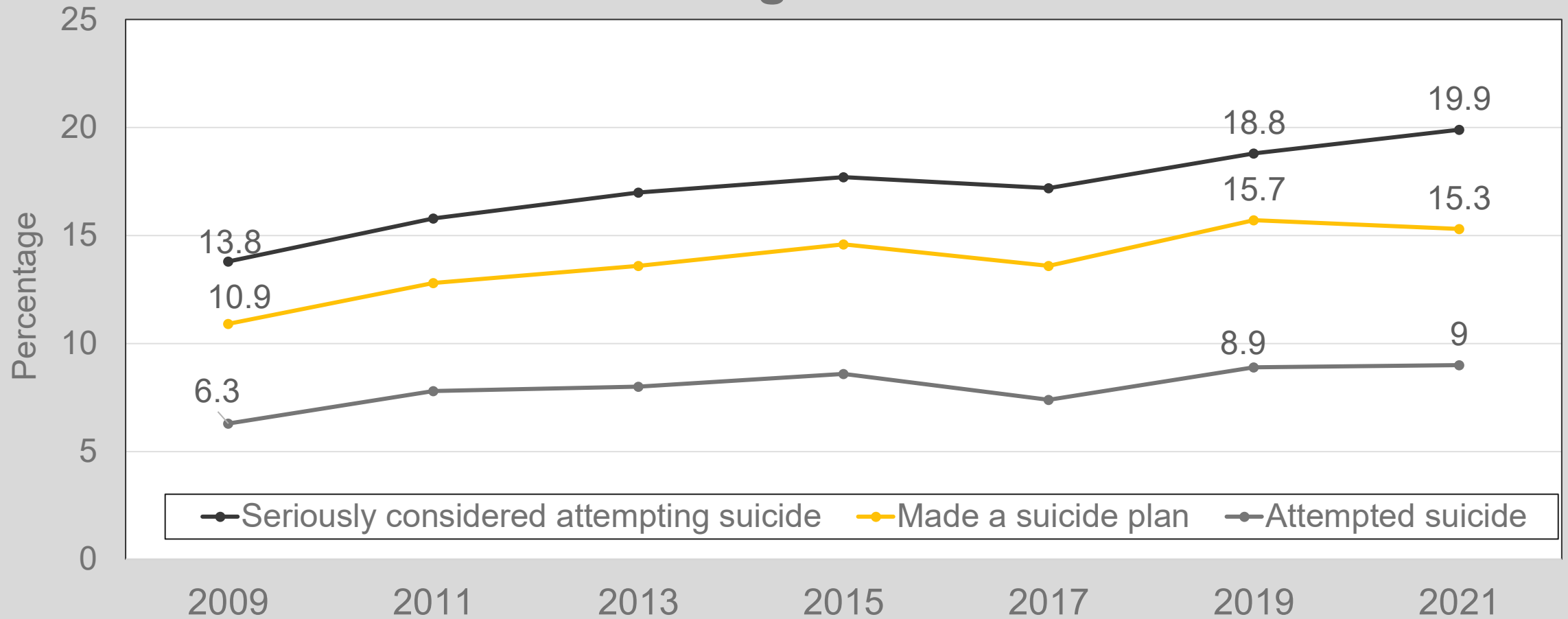
# Percentage of High School Students Reporting Persistent Sadness and Hopelessness



Links to CDC Source Material:

- <https://www.cdc.gov/healthyouth/data/yrbs/pdf/YRBSDataSummaryTrendsReport2019-508.pdf>
- <https://www.cdc.gov/mmwr/volumes/71/su/su7103a3.htm>
- <https://www.cdc.gov/healthyouth/data/abes/tables/summary.htm#MH>

# Percentage of High School Students Reporting Suicidal Thoughts and Behaviors



Links to CDC Source Material:

- <https://www.cdc.gov/healthyouth/data/yrbs/pdf/YRBSDataSummaryTrendsReport2019-508.pdf>
- <https://www.cdc.gov/mmwr/volumes/71/su/su7103a3.htm>
- <https://www.cdc.gov/healthyouth/data/abes/tables/summary.htm#MH>



# Research on Student Depression

- Less In-Person Social Interaction
- More Internet & Social Media Use
  - Unrealistic Social Comparisons
  - Cyberbullying
- Fewer Activities that Foster Independence
  - Fewer Teens with Driver's Licenses
  - Fewer Teens with Jobs
  - Fewer Teens going Places without Parents

## Sources:

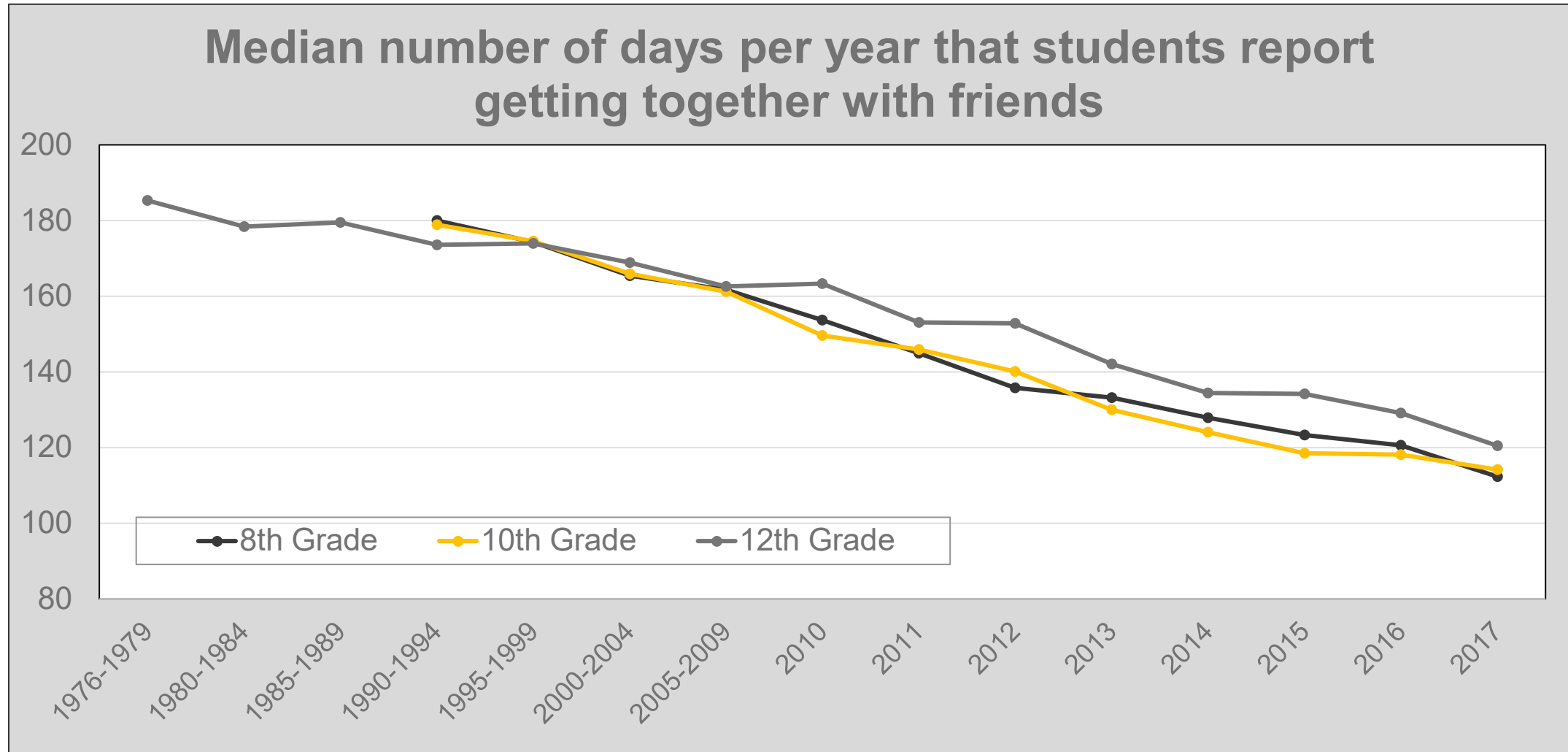
- [Less in-person social interaction with peers among U.S. adolescents in the 21st century and links to loneliness - Jean M. Twenge, Brian H. Spitzberg, W. Keith Campbell, 2019 \(sagepub.com\)](#)
- [The Decline in Adult Activities Among U.S. Adolescents, 1976-2016 - Twenge - 2019 - Child Development - Wiley Online Library](#)
- [The Sad State of Happiness in the United States and the Role of Digital Media | The World Happiness Report](#)



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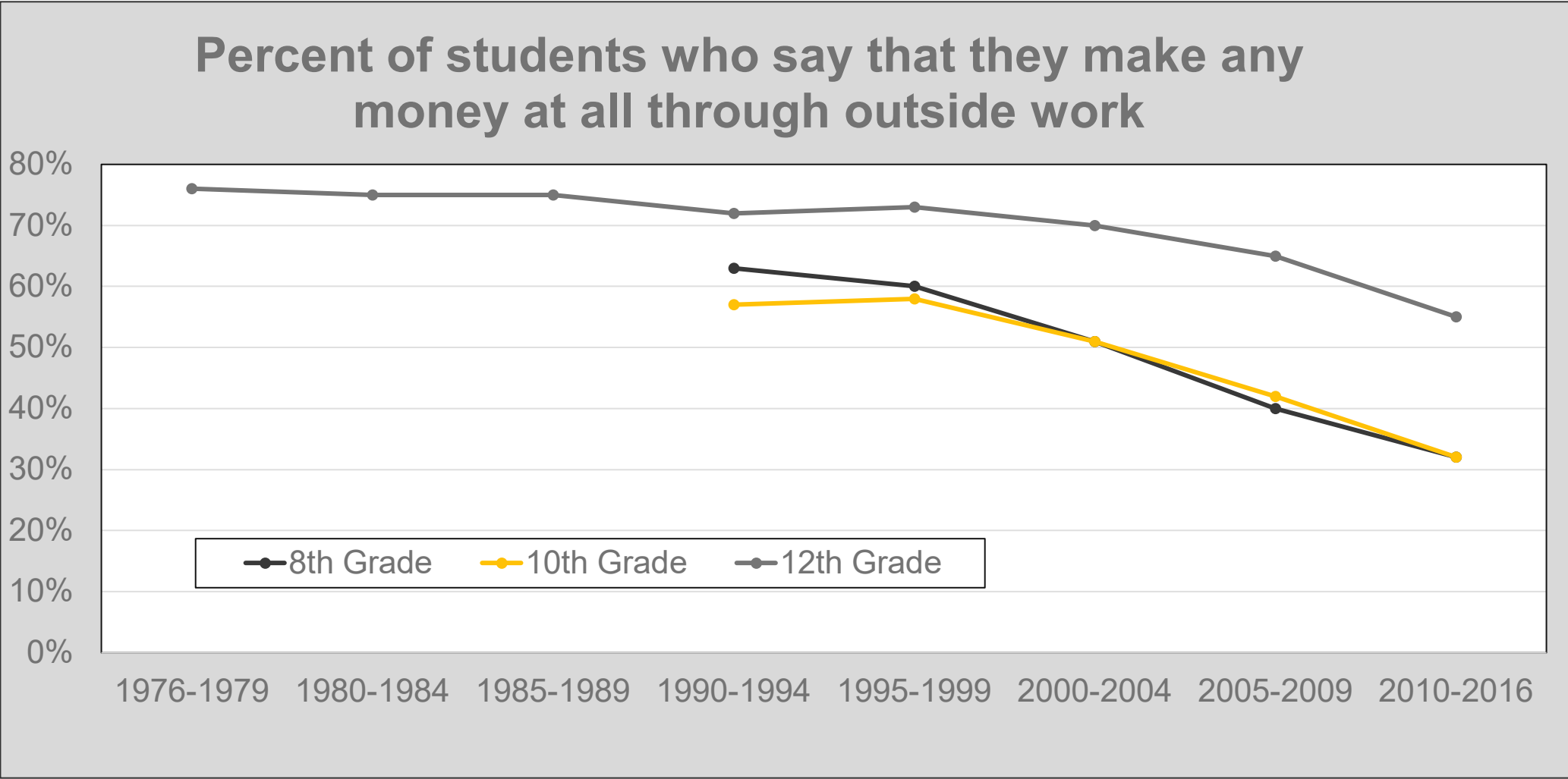
# Example - Declining In-person Interaction



Data Source: [Less in-person social interaction with peers among U.S. adolescents in the 21st century and links to loneliness - Jean M. Twenge, Brian H. Spitzberg, W. Keith Campbell, 2019 \(sagepub.com\)](#)

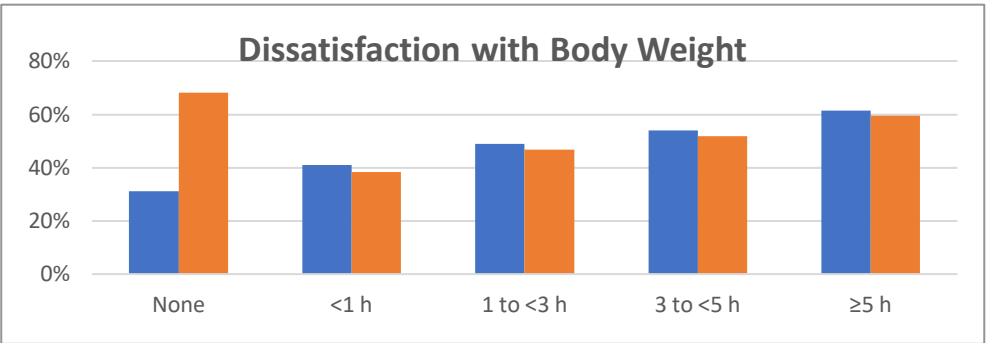
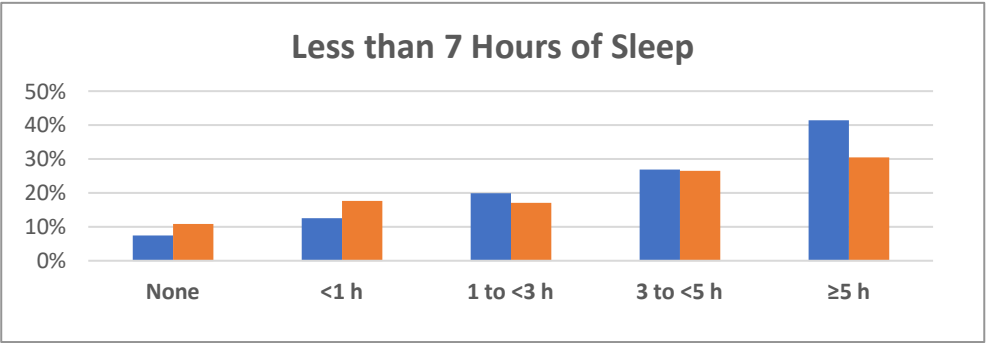
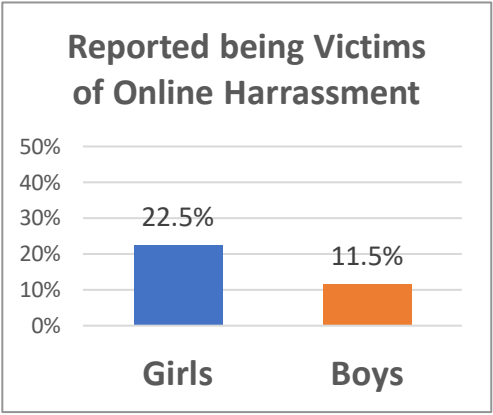
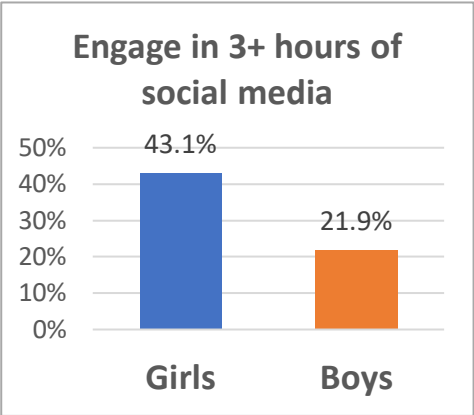
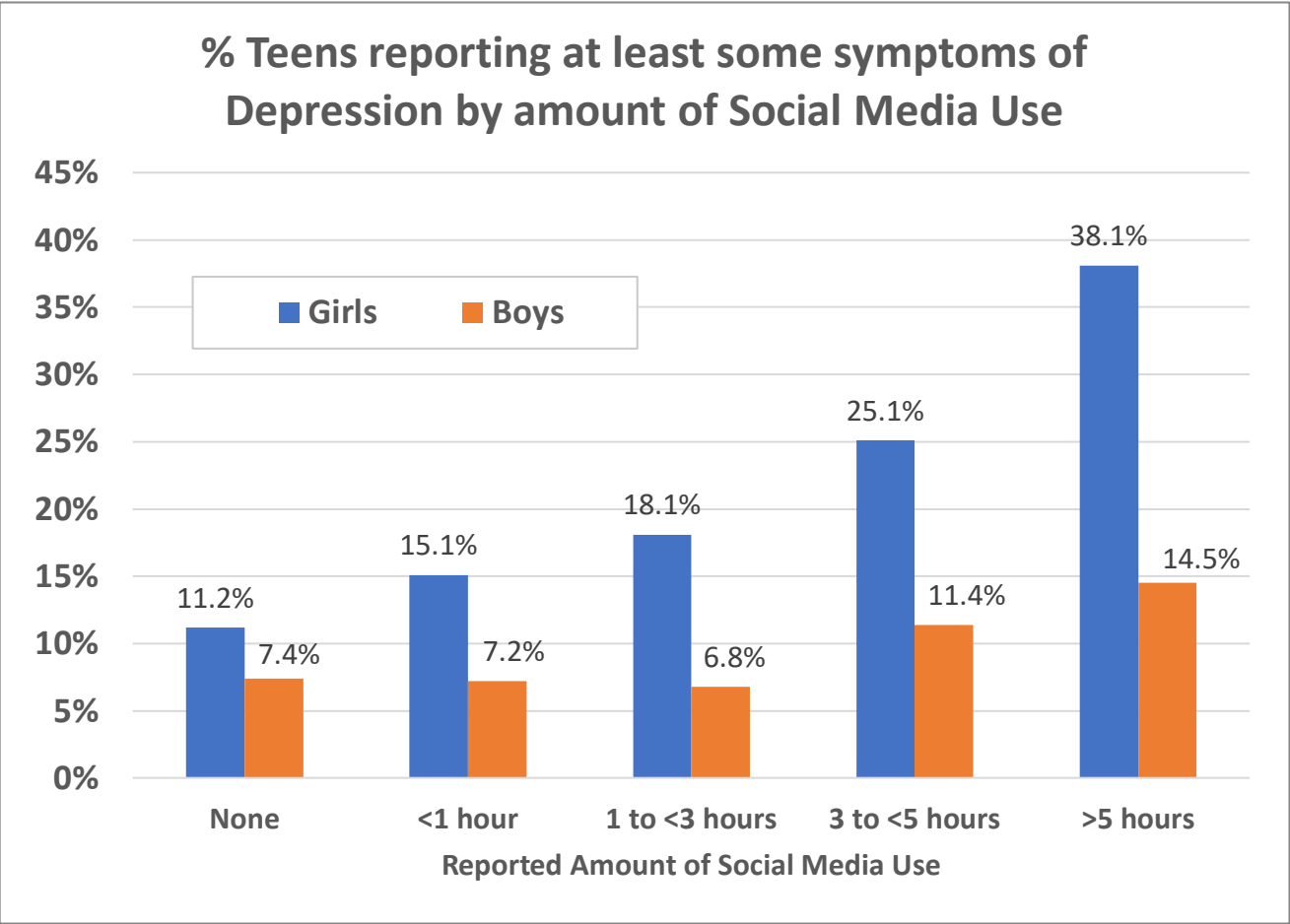


# Example - Fewer Activities that Foster Independence



Data Source: [The Decline in Adult Activities Among U.S. Adolescents, 1976-2016 - Twenge - 2019 - Child Development - Wiley Online Library](#)

# Note: Depression and Social Media Use



**Data Source:** Social Media Use and Adolescent Mental Health: Findings From the UK Millennium Cohort Study - eClinicalMedicine (thelancet.com)



# School Issues & Potential Metrics

- School Behaviors resulting from Mental Health Issues
- Barometers for Assessing Progress on Mental Health Initiatives

# Unexcused Absences



**Linked with:**

- **Generalized Anxiety Disorder**
- **Social Anxiety**

\*Pooled odds ratios across 11 studies

Finning, et al. (2019). The association between anxiety and poor attendance at school : A systematic review.

Source:

<https://eds.s.ebscohost.com/eds/pdfviewer/pdfviewer?vid=8&sid=5ff58b74-0dd0-4a10-96c3-8470ce559d58%40redis>

# School Refusal



## Linked with:

- **Separation Anxiety**
- **Simple Phobia**
- **Social Anxiety**
- **Generalized Anxiety**

\*Pooled across 6 studies

Finning, et al. (2019). The association between anxiety and poor attendance at school : A systematic review.

Source:

<https://eds.s.ebscohost.com/eds/pdfviewer/pdfviewer?vid=8&sid=5ff58b74-0dd0-4a10-96c3-8470ce559d58%40redis>



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# School Exclusion



Exclusion from school can trigger long-term psychiatric illness.  
(2017). Science Daily  
<https://www.sciencedaily.com/releases/2017/08/170829124507.htm>

Ford, et al. (2017). The relationship between exclusion from school and mental health: a secondary analysis of the British Child and Adolescent Mental Health Surveys 2004 and 2007 | Psychological Medicine | Cambridge Core

## Predictors:

- Learning Disability
- Poor Parental Mental Health
- Poor Physical Health

## Bi-Directional Factors:

- Poor Mental Health
- Poor Sociability

## More Common in:

- Boys
- Secondary Students
- Lower Socio-Economic Class



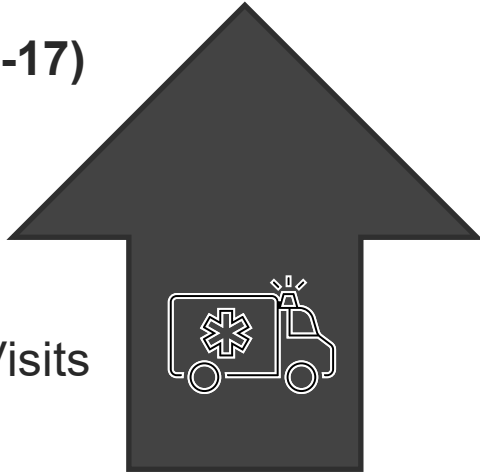
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# Self Harm During the School Year

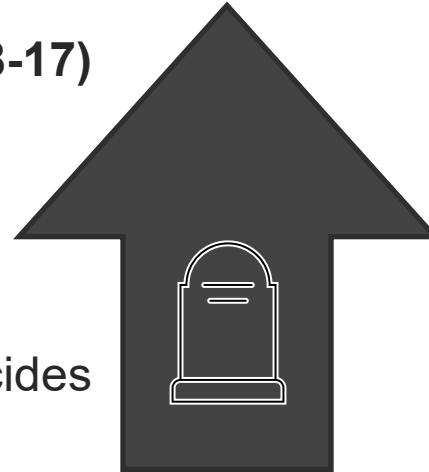
Youth (8-17)

ER Visits

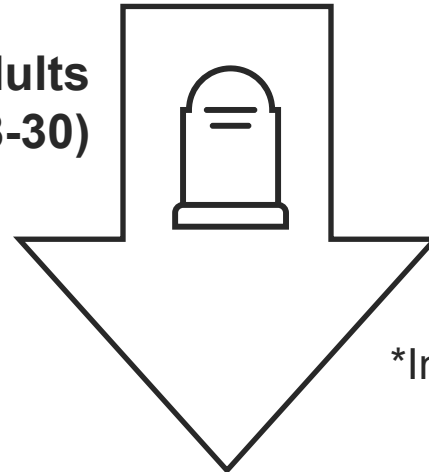


Youth (8-17)

Suicides



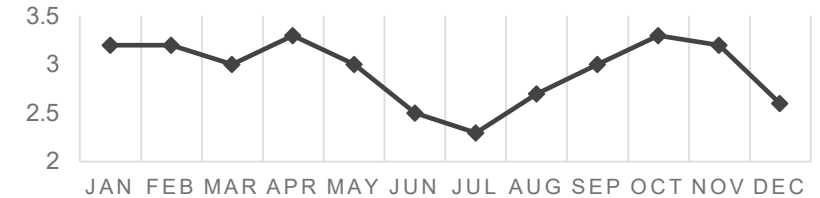
Young Adults  
(18-30)



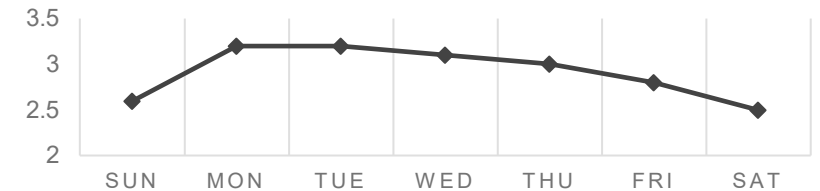
\*In youths, ER visits drop off in summer and during holidays.

Source: Scientific American. Children's Risk of Suicide Increases on School Days - Scientific American

**YOUTH SUICIDE RATES  
(PER 100,000) BY MONTH**



**YOUTH SUICIDE RATES  
(PER 100,000) BY DAY-OF-WEEK**



\*In young adults, suicides peak in the summer.

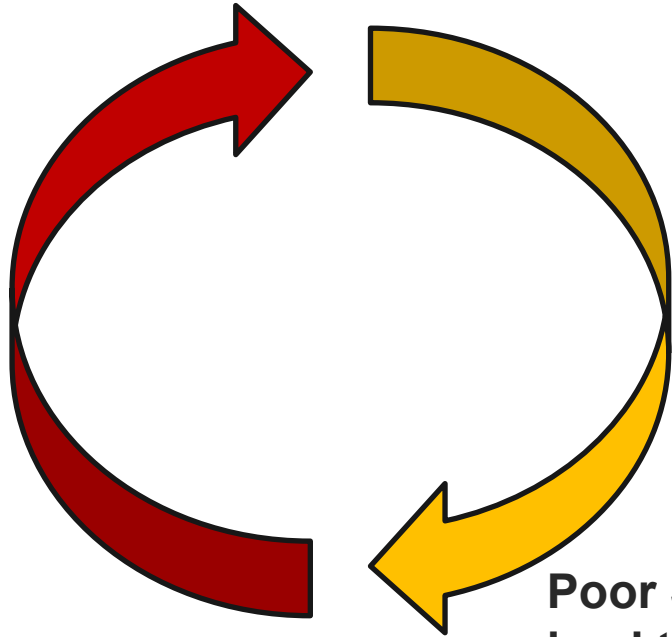


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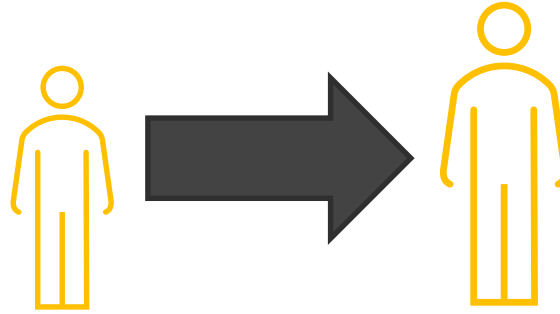
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# Social-Emotional Competencies

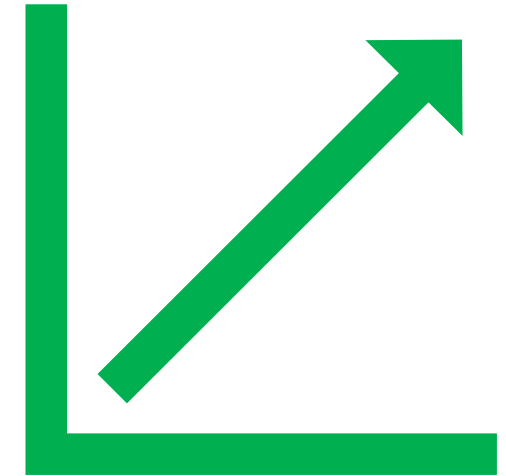
Poor Mental Health leads to Isolation.<sup>1</sup>



Poor Social skills lead to Poor Mental Health Outcomes.<sup>2</sup>



Concerning Social Emotional Competencies in Youth predict Mental Health in Adolescence.<sup>3</sup>



Social-Emotional Programming tends to be Positively Associated with Improved Well-being.<sup>4</sup>



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# Social-Emotional Competencies - Sources

<sup>1</sup> Mental Health and Social Isolation [Understanding Mental Health as a Public Health Issue \(tulane.edu\)](#)

<sup>2</sup> Indirect Effects of Social Skills on Health Through Stress and Loneliness.  
<https://www.tandfonline.com/doi/abs/10.1080/10410236.2017.1384434?journalCode=hhth20>

<sup>3</sup> Association of Childhood Social-Emotional Functioning Profiles at School Entry With Early-Onset Mental Health Conditions. [Association of Childhood Social-Emotional Functioning Profiles at School Entry With Early-Onset Mental Health Conditions - PMC \(nih.gov\)](#)

<sup>4</sup> Review Article: The Role of Social and Emotional Skills in Developing Mental Health of Children.  
[https://www.childresearch.net/papers/health/2019\\_01.html](https://www.childresearch.net/papers/health/2019_01.html)

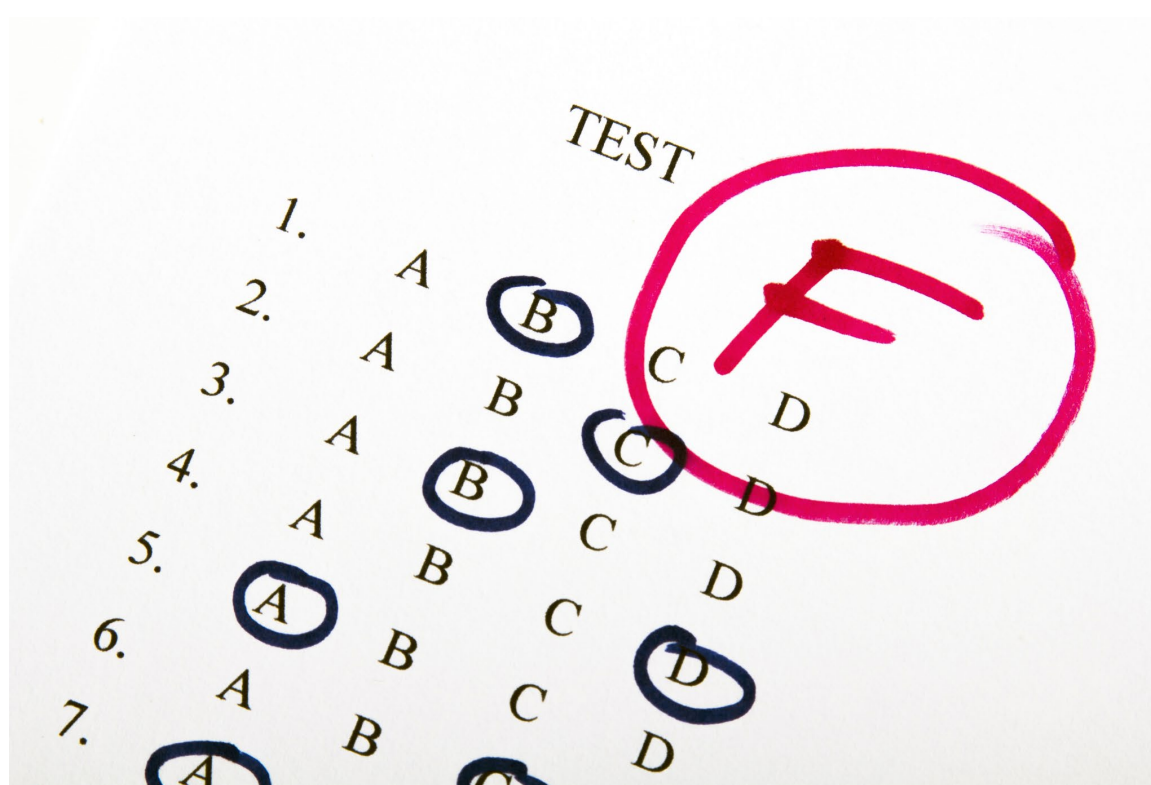
<sup>4</sup> The intersection between mental health and social-emotional learning.  
<https://readingpartners.org/blog/the-intersection-between-mental-health-and-social-emotional-learning/>



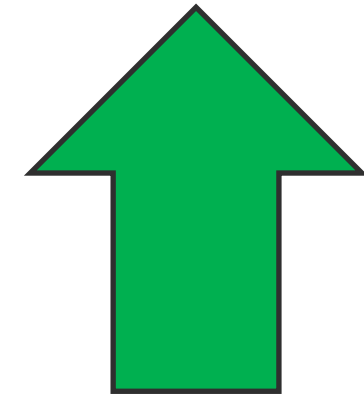
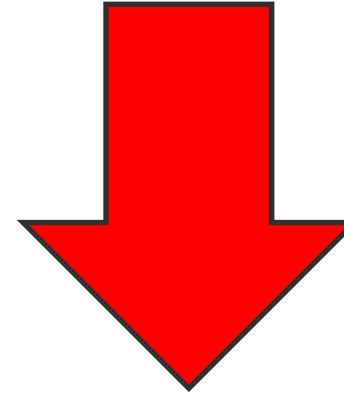
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# Academic Decline



Depression



Psychosocial  
Well-Being

Maybe a Gender Difference

- Boys (externalizing symptoms)
- Girls (internalizing symptoms)

Sources:

- NASP Research Summaries: [MentalHealthAcademicAchievement\\_2020 \(2\).pdf](#)
- [Mental Health Associations with Academic Performance and Education Behaviors in Canadian Secondary School Students - Markus J. Duncan, Karen A. Patte, Scott T. Leatherdale, 2021 \(sagepub.com\)](#)



# School Solutions

Levers for addressing mental health

- School Initiatives

- Designs that support them

A young man with short dark hair, wearing a denim jacket over a white hoodie, is smiling broadly and looking towards the right. He is sitting at a desk in a classroom. In the background, other students are seated at desks, and the room is brightly lit with circular ceiling lights. The text is overlaid on the left side of the image.

**Solution 1**  
**Multi-Tiered Systems of**  
**Support (MTSS)**

# District Plans

	2018/19 District Percent	2023 District Percent	Difference
MTSS	17.9%	31.6%	13.7%
MENTAL HEALTH	30.5%	40.4%	9.8%
INCLUSION	23.2%	30.9%	7.7%
COMMUNITY ENGAGEMENT	27.0%	34.0%	7.0%
EXCELLENCE	45.3%	52.3%	7.0%
BILINGUAL	4.9%	11.6%	6.7%
CERTIFICATION	19.3%	25.3%	6.0%
ATTENDANCE	47.0%	53.0%	6.0%
RESTORATIVE	13.0%	18.2%	5.3%
INSTRUCTIONAL MATERIALS	8.4%	13.3%	4.9%
TRUST	22.5%	27.0%	4.6%
SEL	25.6%	30.2%	4.6%
ASSESSMENT	70.9%	75.1%	4.2%
ELA	24.9%	28.8%	3.9%
CYBERSECURITY	2.1%	5.6%	3.5%

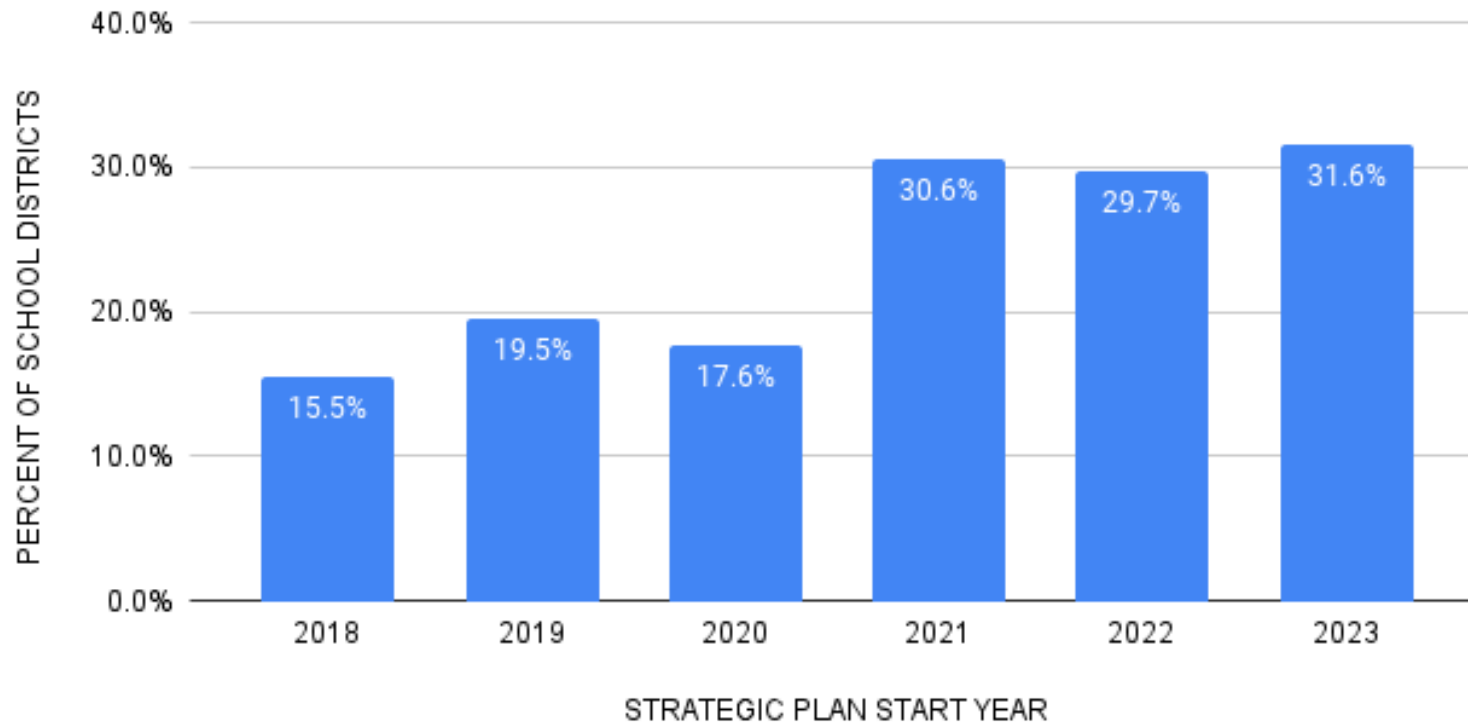
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 Strategic Trends**



# Trends in District Planning for MTSS

PREVALENCE OF KEYWORDS IN DISTRICT STRATEGIC PLANS  
MULTI-TIERED SYSTEM OF SUPPORTS/MTSS

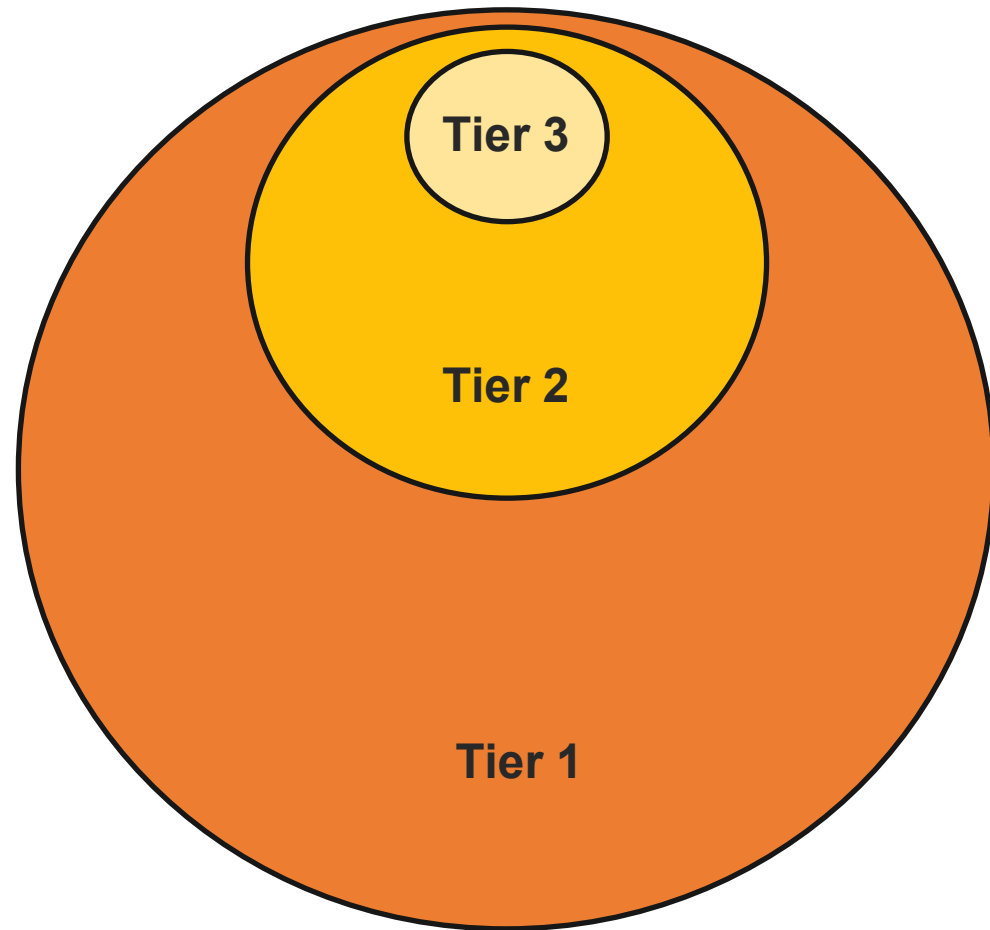
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# Multi-Tiered Systems of Support (MTSS)



Source material listed on a separate slide.

## **Inclusive Education System**

- Academic Support
- Behavioral Support
- Mental Health Support
- Social Emotional Learning Support

## **Tier 1 (all students)**

- Universal assessments for Proactive Evaluation
- SEL and Academic Supports at all times

## **Tier 2 (some students)**

- Supplemental Support in Groups

## **Tier 3 (few students)**

- Intensified Support
- Individualized Sessions (could involve outside agencies and specialists)

# Possible MTSS Activities

## **Tier 1 (all students)**

- Collaborative Learning
- Blended Learning
- Learning Stations

## **Tier 2 (some students)**

- Small group discussions
- Art therapy sessions
- Tutoring sessions
- Group relaxation or mindfulness activities

## **Tier 3 (few students)**

- Individual PT, OT, Psychotherapy
- Sensory or tranquility time
- Individual Tutoring



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# Source Material for MTSS

[Essential Components of MTSS Infographic Collection | Center on Multi-Tiered Systems of Support \(mtss4success.org\)](#)

[Using MTSS to Address Students' Mental Health \(ed.gov\)](#)

[MTSS: What Is a Multi-Tiered System of Supports? \(edweek.org\)](#)

[Multi-Tiered Systems of Support \(MTSS\) - YouTube](#)

[Introduction to MTSS Visual - YouTube](#)

[Tiers are Not a Location - YouTube](#)



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# Tier 1 – Variety to support all students



**Inclusion:** Many sitting or standing options to address attentional and sensory needs.

**Flexibility:** Mobile desks, chairs, and whiteboards promote differentiation.

**Collaboration:** Desk Shapes fit into group configurations with good sightlines.



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# Tier 2 – Additional Resource Support



**Ownership:** A variety of seating options empowers students with the ability to choose how they want to receive supplemental help.

**Accommodation:** Height adjustable furnishings allow students with mobility devices to be included.

**Inviting:** Appealing colors and comfortable seating reduce the “institutional” feel of Tier 2 spaces.



# Tier 3 – Intensive Individual Support



**Unintimidating:** A less formal setting with soft furniture reduces the potential for the space to have a “punitive” look.

**Informal Gathering:** Small gathering areas allow for family and professional interventions.

**Work surfaces:** Small desktop surfaces allow students and professionals to visually communicate or to record their thoughts during sessions.



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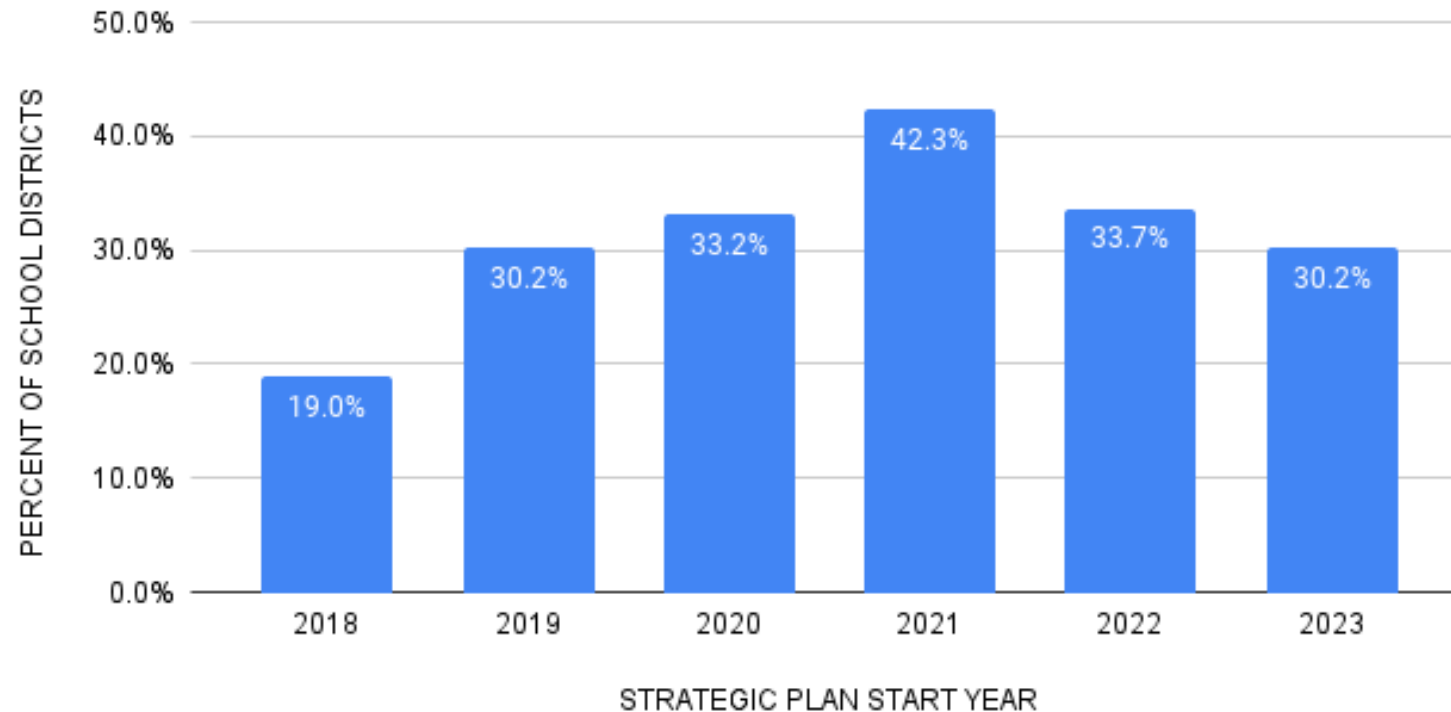
A young man with short dark hair, wearing a denim jacket over a white hoodie, is smiling broadly and looking towards the right. He is sitting at a desk in a classroom. In the background, other students are seated at desks, some looking towards the camera and others looking away. The lighting is bright and even, creating a positive and engaged atmosphere.

# Solution 2. Social-Emotional Learning

# Trends in District Planning for SEL

PREVALENCE OF KEYWORDS IN DISTRICT STRATEGIC PLANS  
SOCIAL-EMOTIONAL LEARNING/SEL

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# Social Emotional Learning Initiatives

## **More explicit SEL in Preschool and Elementary School**

- Circle Time
- Songs & Games
- Talk Through/Identify Feelings
- Group SEL Activities
- Teacher-Led Discussions

## **Embedded in the curriculum as students get older**

- Literature & Composition
- History, Social Studies, & Other Humanities
- Participation in Social Service, Advocacy
- Extra-Curricular Opportunities and School Involvement



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# Preschool Designs to promote SEL



**Circle Time:** Large rugs offer gathering spaces for whole class discussions, activities, lessons, and stress-reducing activities.

**Group Activities:** Collaborative Tables inspire activities that enhance sharing, dialog, and compromise.

**Emotional Expression:** Spaces for art and dramatic provide these opportunities.

**Quiet Time:** Soft seating lets children separate as a means of emotional regulation.



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# Elementary School Designs to promote SEL



**Group Pods:** Tight groupings allow participants to have their own space and easily interact with each other.

**Flexible Arrangements:** Lightweight chairs and stools let students get into the groups they need.

**Expression:** Whiteboard tabletops and mobile media assist with expression.

**Tech Area:** Permits the use of digital media for SEL content or to calm down with videos.



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# Middle/High School Designs to promote SEL



**Discussion Groups:** Facilitate peer-to-peer conversations to share experiences and develop empathy.

**Inclusion:** Variety in standing or sitting options accommodate students with different postural needs.

**Expression:** Whiteboard tabletops and mobile media.

**Flexibility:** Workspaces allow groups to gather as needed.



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Solution 3

General Mental Health Focus

# Trends in District Planning for Mental Health

PREVALENCE OF KEYWORDS IN DISTRICT STRATEGIC PLANS  
MENTAL HEALTH

Reprinted from:  
**Burbio School Tracker:  
Strategic Trends**



A young man with short dark hair, wearing a denim jacket over a hoodie, is smiling broadly and looking to his right. He is sitting at a desk in a classroom or lecture hall. In the background, several other people are seated at desks, but they are out of focus. The lighting is bright and even.

# General Mental Health: Acute Situations

# Tranquility Rooms

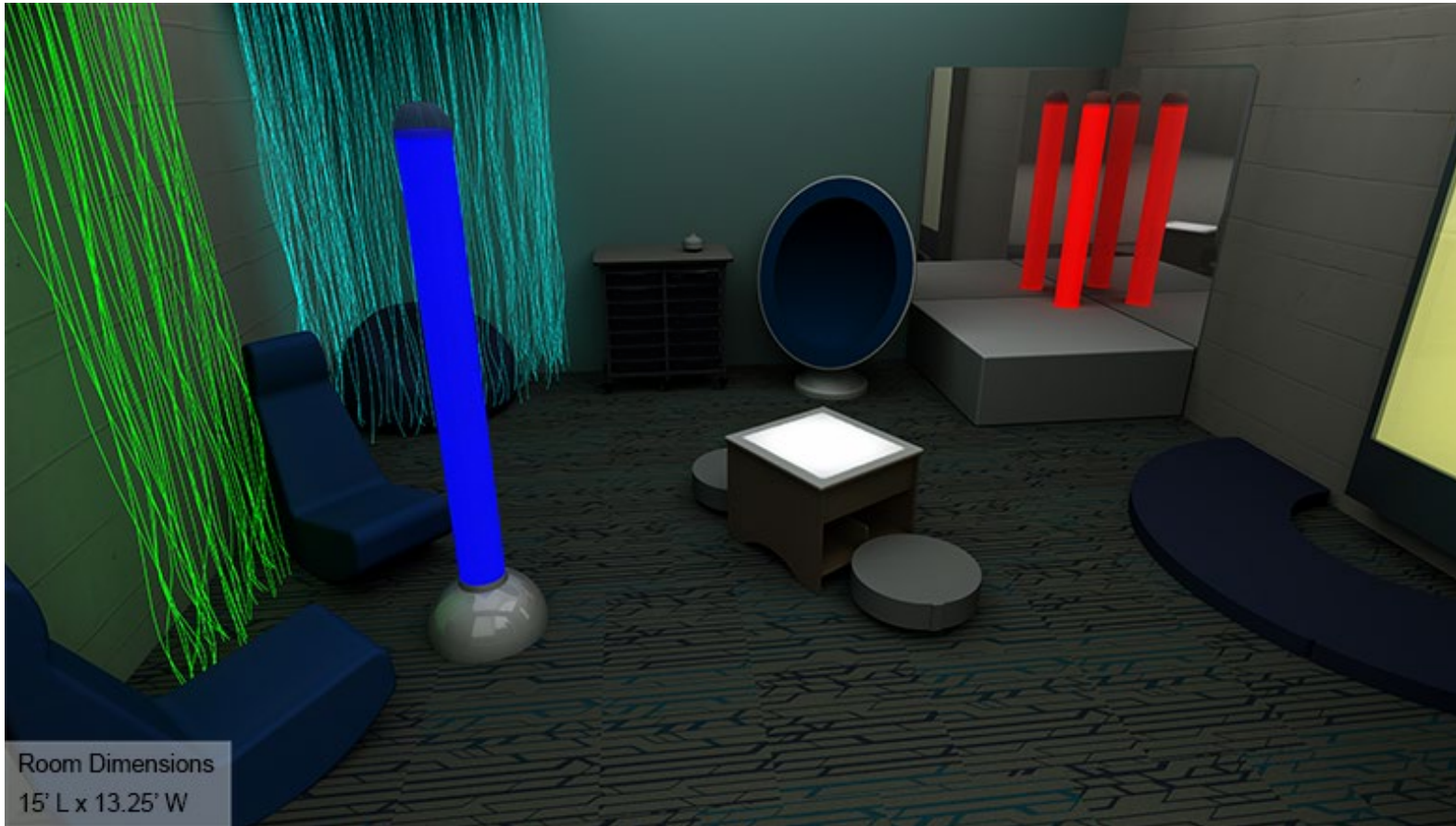


Decompress from Stress  
Dedicated Calming Space

## Design Thoughts:

- Variety of Comfort Seating Options
- Cool-Calming Colors
- Biophilia (Images, Plants, and Objects)
- Writing Surfaces
- Access to calming items (e.g., stress balls, fidget spinners, paper, markers)

# Sensory Rooms



Refuge from Overwhelming  
Sensory Input

## Design Thoughts:

- Away from high-traffic areas
- Control over sensory equipment (e.g., light intensity, sounds)
- Enough light for easy maneuverability
- Access to calming items (e.g., stress balls, fidget spinners, paper, markers)

# Breakout Rooms



Quick Go-To Places – Reduces Embarrassment during Stress  
Could be Multipurpose Project Areas

## Design Thoughts:

- Convenient Locations
- Reduce Visibility Inside (tinted glass, ability to turn away)
- Seating
- Space for Personal Belongings
- Writing Space

Room Dimensions  
28' L x 13' W



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# Outdoor Benches & Tables



Immediate place to be alone during stress

Still on school grounds in a monitored area

Benefits of Outdoor Air & Light

## Design Thoughts:

- Spacing to allow personal separation
- Shade/Shelter
- Wipe-down surfaces (weather)
- Writing Surfaces
- Variety of Seating Options



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# Individual Nooks



Getting away from the crowd without being totally alone

## Spaces:

- Libraries/Learning Commons
- Common Areas

## Design Thoughts:

- Semi-enclosures or divider panels
- Full enclosures with acrylic doors

# Nurse's Office



Students can discuss Mental Health Concern under the banner of "not feeling well".

First care for self-harming students.

Other Mental Health Applications:

- Referral for services
- Information about Community Resources
- Psychotropic Prescriptions

A young man with short dark hair, wearing a denim jacket over a hoodie, is smiling broadly and looking to his right. He is sitting at a desk in a classroom. In the background, other students are seated at desks, but they are out of focus. The lighting is bright and even.

# General Mental Health: Overall Health and Well-Being

# Indoor Spaces with Access to Light



## Consider Common Areas

- Entryways/Lobbies
- Cafeterias
- Libraries



**Consider Seating Variety to Invite students into these areas**



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# Outdoor Spaces



Space Dimensions  
152' L x 81.5' W

## Activities

- Outdoor Dining
- Outdoor Classrooms
- Recreation Areas

## Benefits

- Oxygen Uptake
- Sunlight – Serotonin & Vitamin D
- Connection to Nature



Space Dimensions  
48' L x 49' W





Solution 4  
School Connectedness and  
Building Resilience

# Fostering Connectedness to Build Resilience

## HOPE Framework (Academic Pediatrics Association)

- Nurturing, supportive relationships
- Safe, stable, protective, and equitable environments
- Connectedness and constructive social engagement
- Learning social and emotional competencies

## School-Related Positive Childhood Experiences (derived from National Survey of Children's Health)

- After school activities
- Volunteer Opportunities
- Mentoring for Advice or Guidance
- Sharing Ideas with a Caregiver

Sources:

- [Responding to ACEs With HOPE: Health Outcomes From Positive Experiences - Academic Pediatrics \(academicpedsjnl.net\)](http://academicpedsjnl.net)
- [Positive Childhood Experiences Promote School Success \(ohionet.org\)](http://ohionet.org)



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A young man with short dark hair, wearing a denim jacket over a hoodie, is smiling broadly and looking towards the right. He is sitting at a desk in a classroom. In the background, other students are seated at desks, but they are out of focus. The lighting is bright and even.

# School Connectedness: Social Interaction

# Furnished Common Areas



## Benefits:

- Informal gathering
- Potential student-teacher interactions
- Potentially reduces student isolation

## Areas:

- Larger Hallways
- Entryways
- Locker Areas
- Large Stairway Areas



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# Student Centers and Lounges



## Benefits:

- Student Involvement
- Connectedness through cohorts
- Informal student gathering

## Design Considerations:

- Seating choices
- Ample tabletop space
- Mobile Furnishings
- Device Charging



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# Student Clubs and Activity Centers



## Benefits:

- Connectedness - school-sponsored activities
- Collaboration – projects
- Achievement – working toward a goal.

## Design Considerations:

- Access to resource materials
- Access to information-sharing media
- Ample seating and workspace
- Mobile Furnishings



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# Group Project Areas



## Benefits:

- Collaboration
- Between-Group Interaction
- Socialization

## Design Considerations:

- Collaborative Tables
- Good sightlines
- Ample walkways to other pods
- Access to power, media and materials

# Dining Areas



## Benefits:

- Socialization & Informal Gathering
- Multifunction Area (tutoring, group work, activities)

## Design Considerations:

- Inviting Furnishings & Decor
- Options for Student Choice
- Outdoor – change of scene; health
- Access to power, media and materials



A young man with short dark hair, wearing a denim jacket over a hoodie, is smiling broadly and looking to his right. He is sitting at a desk in a classroom. In the background, other students are seated at desks, but they are out of focus. The lighting is bright and even.

School Connectedness:  
Achievement & Self-Efficacy

# Art & Video Production Spaces



## Concepts

- Therapy through Visual Expression
- Opportunity for Skill-Building
- Immersion in Mindful Activities

## Considerations

- Possibility for Drop-In Participation?
- Training on Specific Tools?
- Possibility for After-Hours Use?



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# Music Rooms



## Concepts

- Emotional Release through Performance
- Chance to focus on refining skills
- Mindfulness on the present moment

## Considerations

- Possibility for Drop-In Use?
- Access to Music and Instruments?
- Possibility for After-Hours Use?



# Computer & Digital Media Rooms



## Opportunities:

- Digital Skill Building (Photoshop, Video, Coding, 3D Printing)
- Digital Content (streaming, blogs)
- Additional Learning (language, podcast)
- Potential MTSS Tier 2 “catch up”



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# Makerspaces

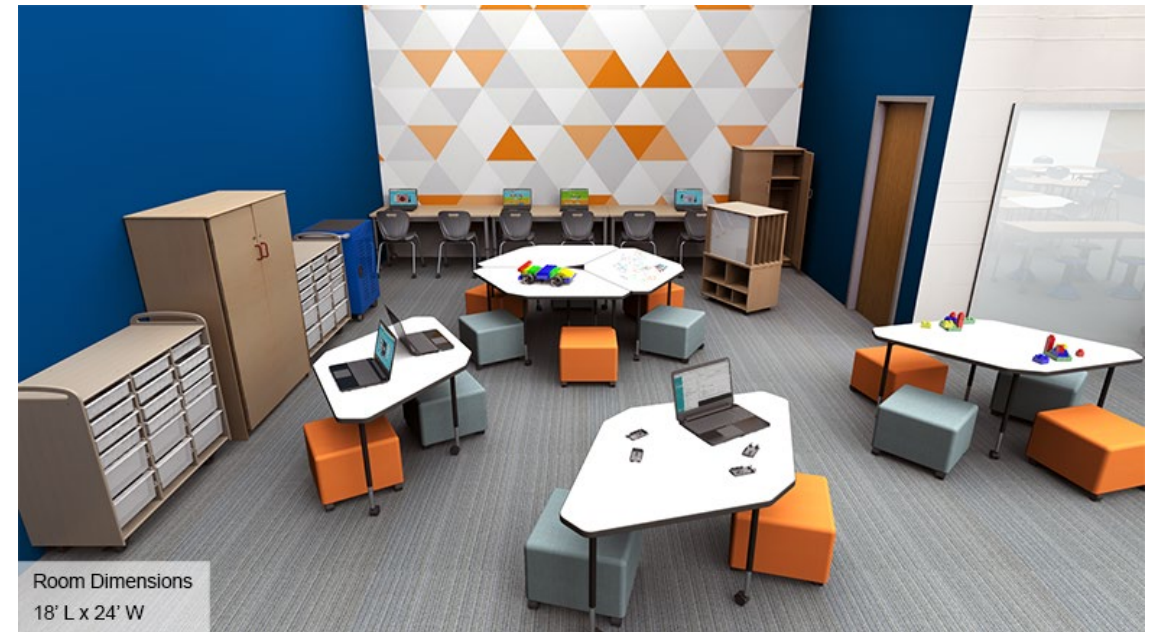


## Concepts

- Shift from Emotional Thinking to Solution-Based Thinking
- Engage Analytical Reasoning
- Build Confidence by building something

## Considerations

- Possibility for Drop-In Participation?
- Access to Tools and Materials?
- Mentoring Available?



A young man with short dark hair, wearing a denim jacket over a hoodie, is smiling broadly and looking to his right. He is sitting at a desk in a classroom, with other students blurred in the background. The text "School Connectedness: Recreation" is overlaid on the image in a black serif font.

School Connectedness:  
Recreation

# eSports & Gaming



## Opportunities:

- Varsity eSports Teams, especially in High School and Middle School
- Possible Recreational Use

## Considerations

- Possibility for Drop-In Participation?
- Scheduled Use?
- Oversight of eSports Room?



# Outdoor Play



## Playgrounds

- Consider Multiple Activity Centers

## Recreational Use/Exercise

- Walking Trails
- Trees, Natural Flora



## Sports Areas

- Recreation Areas during School
- Opportunities for Connectedness After School
- Tie with Community (e.g., Outside Sports Leagues)



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# Today's Takeaways

I hope you will be better able to answer these questions:

**Levers:** What are some conditions a school could change to address the decline in youth mental health?

**Metrics:** What observable changes in school behaviors would we expect to see if student mental health improves?

**Trends:** What initiatives are schools currently taking to address youth mental health?

**Spaces:** How can school spaces help?

# EDspaces

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# Thank You!

Please scan the QR code to provide session feedback.



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