Who is in the (virtual) room?

Mentimeter

0
Teacher (elementary)

0
Teacher (middle)

0
Teacher (high)

0
School administrator

0
School guidance counselor or social worker

0
Nonprofit staff

0
Other

Press **S** to show image

Objectives

✓ **Understand what hotspot mapping is and why it works.**

✓ **Know best practices for environmental changes.**

✓ **Learn about three different types of hotspot mapping.**

✓ **Start thinking about next steps for implementation.**

Why Is Prevention Important for Students?

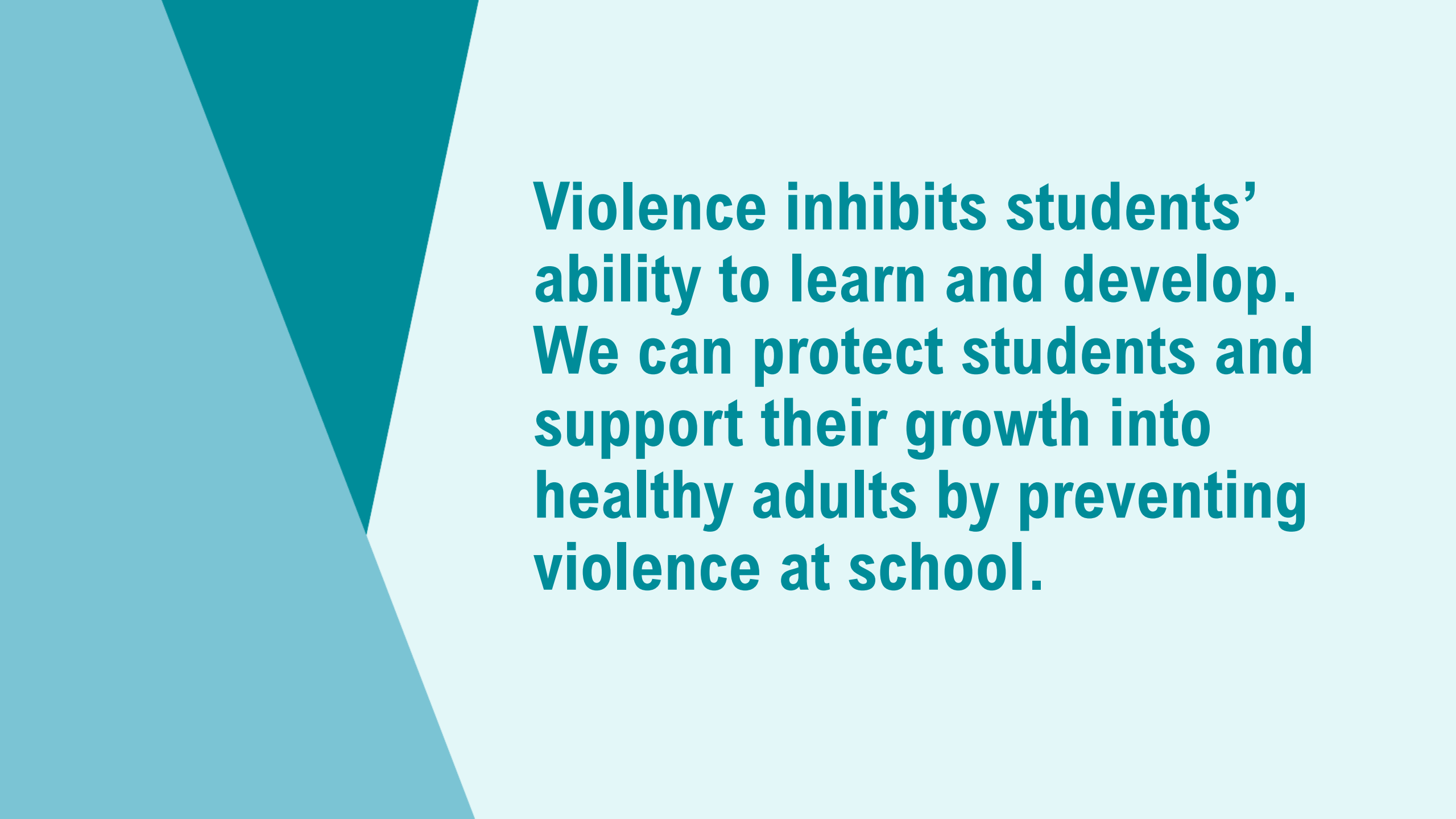# CDC's Youth Risk Behavior Surveillance System (YRBSS) 2019 Data

	United States	Nevada
Were bullied on school property	19.5%	14.6%
Did not go to school because they felt unsafe at school or on their way to or from school	8.7%	**14.5%**
Were ever physically forced to have sexual intercourse	7.3%	7.4%
Experienced sexual dating violence	8.2%	**14.6%**
Experienced physical dating violence	8.2%	8.2%

Impact of Sexual Violence, Intimate Partner Violence, and Bullying

Violence can disrupt teens' development and harm their current and future health.

Teens who experience violence are more likely to:

- Miss school due to safety concerns
- Engage in risky sexual behavior
- Have low academic grades
- Feel sad or hopeless
- Have suicidal thoughts or behavior
- Use substances

David-Ferdon C, Clayton HB, Dahlberg LL, et al. Vital Signs: Prevalence of Multiple Forms of Violence and Increased Health Risk Behaviors and Conditions Among Youths — United States, 2019. MMWR Morb Mortal Wkly Rep 2021;70:167–173.

Violence inhibits students' ability to learn and develop. We can protect students and support their growth into healthy adults by preventing violence at school.

What Is Hotspot Mapping?

Hotspot Mapping

✓ **Participatory data collection strategy**

✓ **Participants identify safe and unsafe spaces**

✓ **Data is used to target environmental changes, making "hotspots" safer**

How Do We Know Hotspot Mapping Works?

The environment impacts our feelings and behaviors.

Research has shown that hotspot mapping alone caused a…

50%

reduction in victimization and perpetration of physical and sexual dating violence

Taylor, B., Stein, N. D., Woods, D., and Mumford, E. (2011). Shifting Boundaries: Final Report on an Experimental Evaluation of a Youth Dating Violence Prevention Program in New York City Middle Schools.

Types of Hotspot Mapping

✓ **PhotoVoice**

✓ **School Map Coloring 1.0**

✓ **School Map Coloring 2.0**

PhotoVoice

- Participants take photos of spaces in their environment that are safe and unsafe.

- Photos are collated, analyzed, and discussed.

- Environmental change made based on photo outcomes.

Example: PhotoVoice, Indiana Coalition Against Domestic Violence

Stop has a covered area with v...

name

Stop has a covered area with very narrow entry way. Very busy and crowded area.

Dangerous area to walk in. No ...

name

Dangerous area to walk in. No sidewalks to get to the shopping areas, roads in poor conditions.

Hazardous Cross Walks!!!

name

Hazardous Cross Walks!!!

description

Thomas nearly was hit by a car while crossing at the appropriate time!

Bloomington, Indiana Incl...

The goal of the collective is to increase the protective factor of social support/inclusion in organizations and the community using

1,071 views

SHARE

☑ **Locations Mapped in 2015**

📍 Stone Belt
🚌 Bloomington Transit
📖 Monroe County Public Library
🏛 Indiana University Art Museum
   ... 8 more

☑ **Geodata from Wikipedia**

🍸 Bloomington, Indiana
📍 Barnes and Nobles
📍 Target
📍 Stone Chase Neighborhood
⚠ No Safe Sidewalks in this shopping center
☣ Hazardous Cross Walks!!!
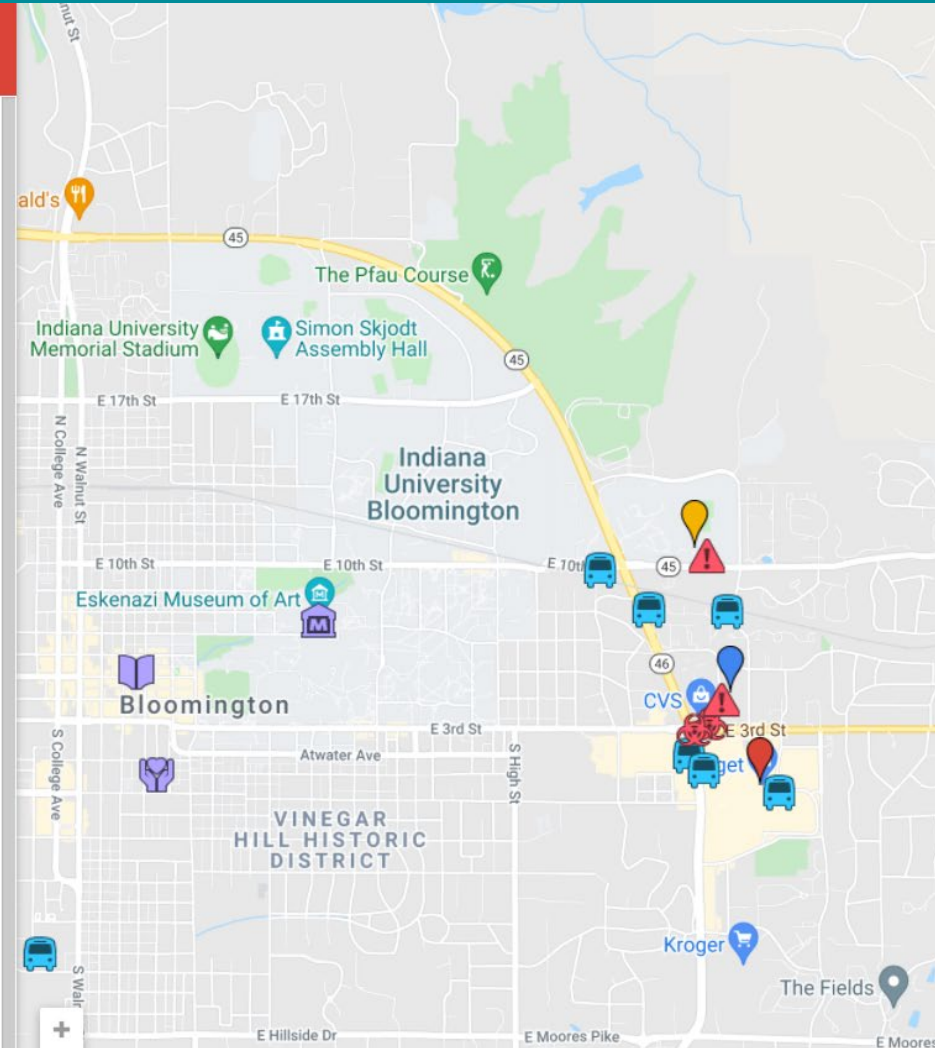
Where the Sidewalk Ends

name

Where the Sidewalk Ends

description

Random pole=no wheelchair access

Paved bus stop with no wheel...

name

Paved bus stop with no wheelchair access

description

Bus stop without wheelchair access AND auto door to the mall doesn't work.

Pros

- Engaging activity
- Allows participants to use creativity
- Does not require significant resource investment
- Can be facilitated with diverse groups

Cons

- Works best with smaller groups, difficult to facilitate with an entire school
- Activity completion requires significant time investment
- Data less precise and more subjective

School Map Coloring 1.0

GROUND FLOOR

263

√ 1. Front Door
√ 2. Atrium
√ 3. Front Desk
√ 4. Principal's Office
√ 5. Asst. Principal's Office
√ 6. Asst. Principal's Office
√ 7. Conference Room
√ 8. Books
√ 9. Nurse's Office
√ 10. Guidance Counselor
√ 11. Stairs
√ 12. Room 113
√ 13. Room 111
√ 14. Room 109
√ 15. Stairs
√ 16. Bathrooms
√ 17. Room 107
√ 18. Room 105
√ 19. Room 103
√ 20. Computer Lab

√ 21. Exit
√ 22. Stairs
√ 23. Room 102
√ 24. Bathrooms
√ 25. Science Room
√ 26. Room 106

√ 27. Room 108
√ 28. Science Room
√ 29. Teacher Workrooms
√ 30. Bathrooms
√ 31. Concession Stand
√ 32. Outdoor Classroom

√ 33. Gym
√ 34. Girl's Locker Room
√ 35. Stage
√ 36. Boy's Locker Room
√ 37. Cafeteria
√ 38. Kitchen

√ 39. Bathrooms
√ 40. Tornado Star
√ 41. Choir Room
√ 42. Band Room
√ 43. Art Room
√ 44. Exit

√ 45. Janitor
√ 46. Room 117
√ 47. Bathrooms
√ 48. Room 115
√ 49. Library

Pros

- Does not require significant resource investment
- Easy activity to facilitate, does not take much time
- Provides good data for making environmental changes

Cons

- Data entry and analysis is extremely time intensive

School Map Coloring 2.0

Try it out!

1. Go to www.hotspotmapky.com

2. Click start button under "Are you a student?

3. Proceed to survey." Enter the school code "SMPL"

4. Fill out sample map

Pros

- Easy activity to facilitate, does not take much time
- Provides good data for making environmental changes
- Data analysis is easy

Cons

- Requires significant resource investment

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Which hotspot mapping strategy seems best for your school?

1st | PhotoVoice

2nd | School Map Coloring 1.0

3rd | School Map Coloring 2.0

Press **S** to show image

Environmental Changes

Environmental Change Examples

- Positive quotes/murals in school bathrooms
- Creating unidirectional stairwells
- Increased staff attentiveness in hallways during class changes
- Switching girl's and boy's locker rooms
- Policy change to reduce overcrowding on school buses

Students should be engaged in the environmental change process.

Crime Prevention Through Environmental Design (CPTED) School Assessment (CSA)

School CPTED Principles[1]

Natural Surveillance (NS) is the design and placement of features and persons to facilitate observations and maximize visibility. The objectives are to eliminate hiding or hard to see places and increase the ability of authorized adults to monitor and respond. This deters aggressive behaviors by increasing the threat of detection and increases feelings of security for students and staff.

Access Management (AM) is the use of real or perceived barriers and other features to orient and guide people and vehicles along appropriate paths and to restrict inappropriate access. The objectives are to increase comfort and decrease prohibited behaviors by providing safe routes and restricting unauthorized access.
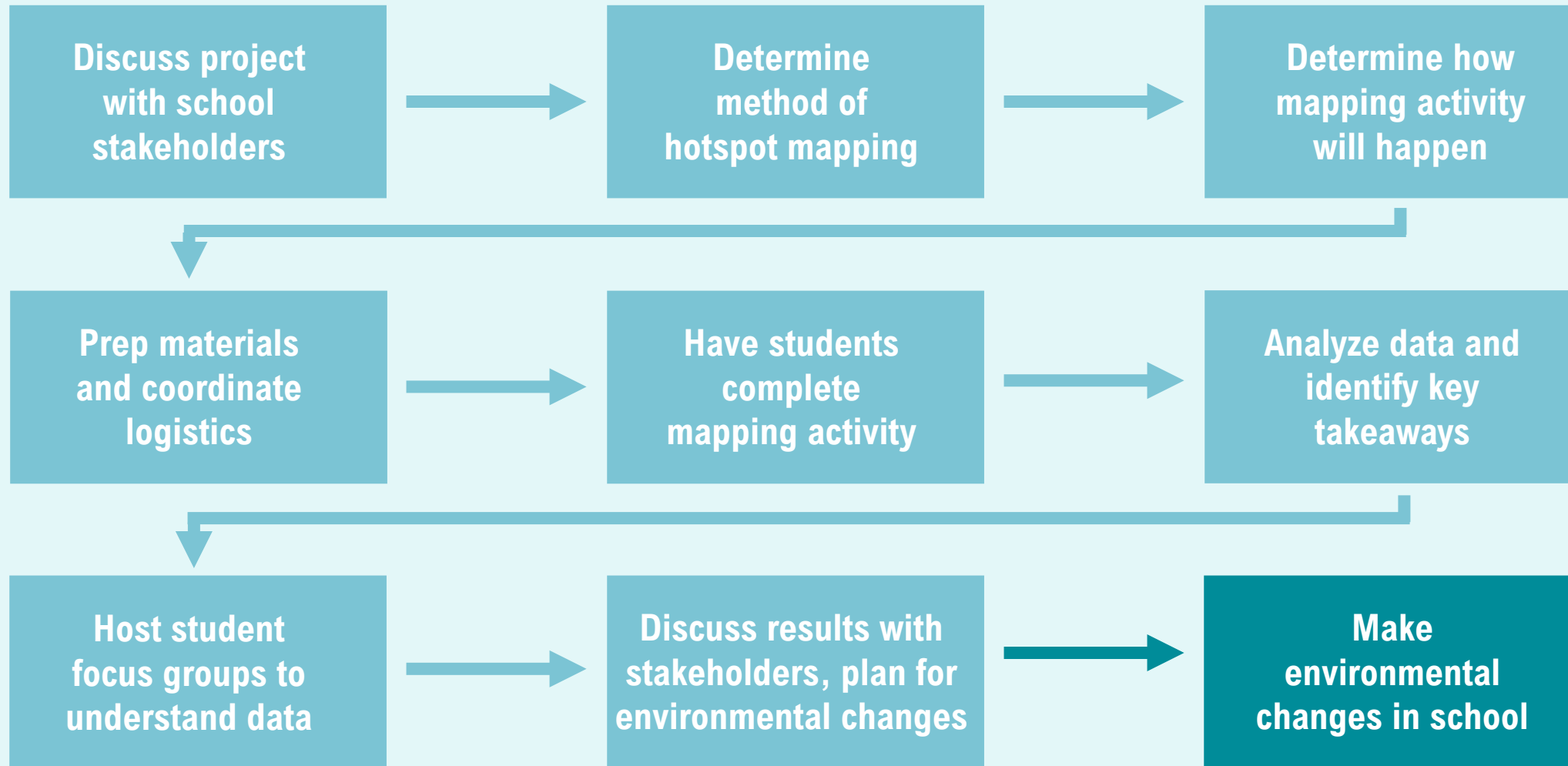
Territoriality (T) is the use of physical attributes to delineate space and to express a sense of ownership and pride. The objective is to communicate to others that an area is claimed and cared for and therefore unacceptable behavior will not be tolerated.

Physical Maintenance (PM) is the repair, replacement and general upkeep of a building or area. The objectives are to allow for the continued use of features and spaces and to further convey a sense of ownership and caring.

Order Maintenance (OM) is the attention to and reduction of minor inappropriate behaviors. The objectives are to maintain decorum and promote pro-social behaviors by preventing the escalation of tension, conflicts or inappropriate behaviors.

Implementation & Next Steps

Hotspot Mapping Implementation

Discuss project with school stakeholders → Determine method of hotspot mapping → Determine how mapping activity will happen →

Prep materials and coordinate logistics → Have students complete mapping activity → Analyze data and identify key takeaways →

Host student focus groups to understand data → Discuss results with stakeholders, plan for environmental changes → **Make environmental changes in school**

Who in your school will likely be collaborators on this project?

Mentimeter

Press **S** to show image

Want to talk next steps? Come to tomorrow's technical assistance session.
Wednesday, December 15
4-5PM PST

Questions? Send me an email.
ahoward@kasap.org