

## Haddon Matrix Applied to the Problem of School Violence by Firearms

	<b>Host</b> <i>(students at school)</i>	<b>Agent/ Vehicle</b> <i>(firearm and bullets)</i>	<b>Physical Environment</b> <i>(school)</i>	<b>Social Environment</b> <i>(school and community norms, policies, rules)</i>
<b>Pre-event</b> <i>(before teen uses weapon)</i>	<ul style="list-style-type: none"> <li>Educate teens about the dangers of carrying guns to school</li> <li>Educate parents about dangers of allowing teens access to guns</li> <li>Teach students to recognize and report student behaviors indicative of possible violent behavior</li> </ul>	<ul style="list-style-type: none"> <li>Modify guns so they are only operable by the owner</li> </ul>	<ul style="list-style-type: none"> <li>Install metal detectors at entrances to schools</li> <li>Eliminate storage places in schools (e.g. lockers) where guns might be kept</li> </ul>	<ul style="list-style-type: none"> <li>Adopt school procedures/policies to notify authorities if a student is suspected of having a gun at school</li> <li>Prohibit gun carrying on school grounds</li> <li>Enforce restrictions on the sale or transfer of handguns to teenagers</li> </ul>
<b>Event</b> <i>(when gun is taken out to be fired)</i>	<ul style="list-style-type: none"> <li>Teach students to take cover when they see guns or hear gunfire</li> </ul>	<ul style="list-style-type: none"> <li>Reduce capacity of weapons to fire multiple rounds quickly</li> <li>Modify bullets to be less lethal</li> </ul>	<ul style="list-style-type: none"> <li>Install alarm systems to call law enforcement as soon as weapons are visible</li> </ul>	<ul style="list-style-type: none"> <li>Have law enforcement officers on duty at school to intervene during fights</li> <li>Develop safety plans to help students move to safety in event of violent episode</li> </ul>
<b>Post-event</b> <i>(after students are shot)</i>	<ul style="list-style-type: none"> <li>Teach students first aid skill</li> </ul>	<ul style="list-style-type: none"> <li>Reduce the capacity of the gun to continue firing</li> </ul>	<ul style="list-style-type: none"> <li>Make school grounds readily accessible to ambulances</li> </ul>	<ul style="list-style-type: none"> <li>Ensure well-trained emergency medical personnel and access to trauma facilities</li> <li>Provide post-event counseling to students, staff and families</li> </ul>

Source: Dr. Carol Runyan, University of North Carolina, Injury Prevention Research Center.