Understanding Area/Perimeter	Measurement: Benchmark E		
	Indicator 4, 5, 6	Recall Relate Connect Create	
escription: Grade 6	· · ·		·
Students will investigate perimeter	and area through real-life problem solvir	ng scenario	
	Dıı	rpose and Modeling	
nticinatory Set:		pose and modeling	
Designing Bumper Cars: Most people enjo wheels to roller o (MARS for short) MARS designers Bumper cars are floor with bumper square tiles. The	by the rides at amusement parks and can coasters and bumper cars. Suppose a c builds rides for amusement parks and c have to use mathematical thinking. a popular ride at amusement parks and r rails all around it. MARS makes their b bumper rails are built form 1-meter sec	nivals, from merry-go-rounds and Ferris ompany called Midway Amusement Rides carnivals. To do well in their business, carnivals. Bumper cars ride on a smooth oumper-car floors from 1 meter-by-1 meter tions.	
est Practices:		Buided Instruction	
<ul> <li>Note Group</li> <li>Inderstanding Area and Perimeter</li> <li>When a customer sends an ordesigners @ MARS first uses model possible floor plans. Nareceived an order—experimentiles then sketch some design customer to consider.</li> <li>compt A ("I Do") —Teacher Led- *Provides input *Thinks are used and purpose (costacognitive) *Provides input *Thinks are used to be adger State Shows in Wiscons</li> <li>Badger State Shows in Wiscons badger State Shows or three sketches.</li> </ul>	Small Group: The Buckeye Amuse sample floor plans at The designers comeMARS has nt with square is for theIn small groups, stud • Find the a a table to b Students w Geometer "model" de out findingide anticipatory ntent-language- aloudIn small groups, stud • Find the a a table to b Students w Geometer "model" de out findingonsin requests a real sections. floor planTeacher w *Responds who needracts onsracts ons	Extension ment Company in Columbus wants some and cost estimates for bumper-car rides. up with Designs A-H.(see attachment) tents will solve following prompt: rea and perimeter for each design. Create record/display data for each design. vill build designs using shape tool in 's Sketchpad or Illuminations website to resigns. Discuss and each group will report s. vill monitor groups as they build designs- s *Acknowledges * Evaluates *Assesses intervention or extension * Sets new goals	1: umper Car Rides: s time to prepare the estimates or bills for mers, the designers at MARS turn over to the billing department. The company \$25 for each rail section and \$30 for each Extend the data table to include a cost for Designs A-H

<ul> <li>plans for the customer.</li> <li>Discuss how two measures facts about the size of the b plans we have designed. T needed to cover the floor is number of rail sections need the floor is the <b>perimeter</b>.</li> </ul>	tell us important umper-car floor he number of tiles the <b>area.</b> The ded to surround				
Collaborative Learning (One to three practices or more as needed)					
Collaboration 1: Math Journal Students will complete a Math Journal prompt independently • score using Problem Solving Rubric	<ul> <li>Collaboration 2: Inclusion Students</li> <li>Students will learn many perimeter and area formulas throughout the year. Have students start a formulas reference card or flip chart with a "study buddy"</li> </ul>	Collaboration 3:	Other Concurrent Activities		
Product: Individual/Section/Group	Product: Individual/Section/Group	Product: Individual/Section/Group	Product: Individual/Section/Group		
<ul> <li>Practice Task(s):</li> <li>Have students determine which measure matches the context for a problem situation</li> <li>Create additional bumper car prompts-allow students to pick one as homework</li> </ul>		Student/Teacher Conferring: Teacher will monitor students as they build designs through process of questioning *Responds *Acknowledges * Evaluates *Assesses who intervention or extension * Sets new goals	need		
		Assessment			
Formative: • Math Journal with Area/Perimeter Prompts • Use small group and independent practice activities to determine intervention needs		Summative: Quiz/Test: Perimeter/Area			