Washington Township School District				
STEM/Makerspace Curriculum				
Grade:	6	Unit/Project Title:	Rubber Band Cars	
Timeframe:	2-4 classes	Extension of Science Unit:	Forces and Motion	
NJ Learning Standard(s):				
Objective: SWBAT construct a car that goes really fast and far (at least four feet), with a rubber band power source and only two wheels.				
Brief description of the experiences: (How does it look and feel?)		Students will work collaboratively in a "hands on" experience with limited materials to build a little car.		
What will students "know" and "be able to do" as a result of having experienced the unit/project? (How is the student's knowledge transformed?)		Students will know that they need the rubber band wound up tight- potential energy - to make the car go -kinetic energy. They will be able to cut and tape cardboard, make adjustments to their materials to get them to work better.		
What is possible now that wasn't before? (i.e. NJSLS and NJMLS practices exemplified)		 Students will: Conduct many trials and errors to achieve objective Analyze failures and successes Identify factors impacting overall achievement 		

	Per group:		
	• 2 compact discs (CDs)		
	 Corrugated cardboard (one piece about 5 1/2 inches square) 		
	• 2 faucet washers (Size: 1/4 inch Large)		
Supplies Needed:	• Poster putty (1/4 package—buy the tackiest available)		
Supplies Needed.	Rubber bands of different lengths and widths		
	• Ruler		
	• Scissors		
	Tape (masking or duct)		
	• 1 wooden skewer (buy the thinnest available)		
	http://pbskids.org/designsquad/pdf/parentseducators/ds pe ed guide unit2.pdf		
Resources to			
Support Unit:	http://pbskids.org/designsquad/pdf/parentseducators/ds pe event guide rubber band car.pdf		