Planning for Math Modeling- Graphic Organizer

a) What's the problem you're posing?(What do you wonder about? What do you notice?)	b) What do we already know? What do we need to know? (What do we already know that can help us?) If I knewthen, I can figure out (Make assumptions.)	c) Do the math! Solve! (What math can I use to solve the problem? Where's the math? (What concepts and skills will students draw from?) Build a Math Model or General Rule
d) Analyze & Interpret: Compare the solution to the real situation- Does it make sense? Is the solution creating a model that is Descriptive: Using math to describe a situation Predictive: Using math to predict Optimizing: Finding "best" Rating and Ranking: Using math measures/weights to rank Others: Can it be communicated to others, useable to others and generalizable?	e) Does the solution make sense? How can you Revise, Refine and Report your solution? (Think back to the problem statement. Does the solution work? What might you change?)	

Planning for Math Modeling- Graphic Organizer

a) Posing the Problem:	b) Identify assumptions/variables in situation that are essential:	c) Build a solution:
Real World Context: What relevant context would motivate learners?	Pose the Problem Make Assumptions & Statement Define the Variables Real World Problem in a Local Context Mathematical Modeling Cycle Mathematical Model/ Solution Revise, Refine and Reflect back to the Problem Analyze & Interpret the Solution	d) Analyze & Interpret: Is the solution creating a model that is Descriptive: Using math to describe a situation
Connection to Content: How did math help you make decisions in this MM task?	e) Revise, Refine and Reflect back to the problem: Compare the solution to the real situation– Does it make sense?	 Predictive: Using math to predict Optimizing: Finding "best" Rating and Ranking: Using math measures/weights to rank Others: Can it be communicated to others, useable to others and generalizable?