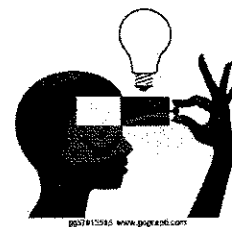


Knowledge Probe: Roller Coaster Investigation



Name: _____

Write notes as you work together to gather scientific information for your experiment.

Reading Two Column Notes:	
Main Ideas	Definitions/Equations/Details
The transfer of energy	
Potential Energy Definition	
Kinetic Energy Definition	
Gravitational Potential Energy Equation – Label the variables	
Kinetic Energy Calculation – Label the variables	
Mechanical Energy Definition	

Mechanical Energy Calculation	
Law of Conservation of Energy	
Conserving Mechanical Energy	
Losing Mechanical Energy	
Velocity Definition (Use page 120 in the Physical Science book)	
Average Speed (Velocity) Equation – Label the variables (Use page 119-120 in the Physical Science book)	
What is the difference between velocity and speed?	
Simulation: Complete the Energy Skate Park worksheet as a part of this knowledge probe.	
Practice Problems: Complete the potential and kinetic energy practice problems as a part of the knowledge probe.	
Keep all of these knowledge probe materials together in your binder!	