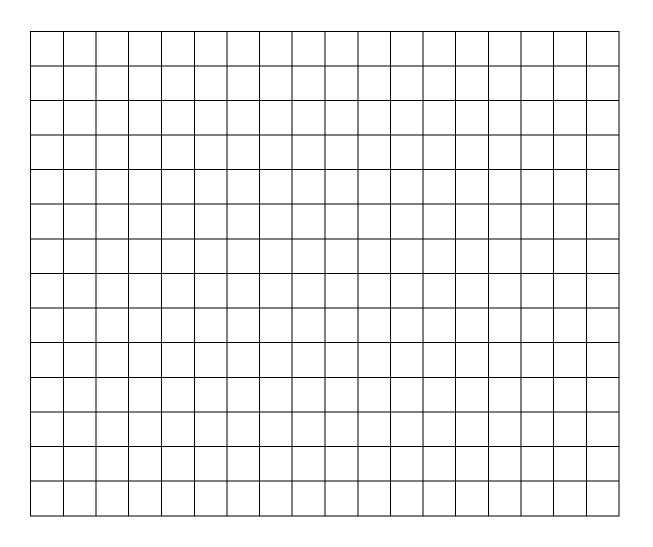
Name	Period	Date
Lesson 6: What Type of Surface Will Allo	ow a Ball to Roll	a Greater Distance?
Activity 6.1		Your Progress:
Purpose Conduct an experiment the measures rolling distance different surfaces when it rolls down a ramp. Answer questions before your start your experiment.		MasteryProficientDeveloping
Safety Use the toy balls only to perform the lab. Do not misu equipment.	se the lab	Beginning
Variables What is the independent variable (manipulated varia	ble) for this experim	ent?
What is the dependent variable (measured/ respondi	ing variable) for this	experiment?
What are the controlled variables (variables that stay	rs the same) for this e	experiment? (State at least 3)

Data

Trial #	Distance Traveled on Tile (cm.)	Distance Traveled on Carpet (cm.)
Trial 1		
Trial 2		
Trial 3		
Trial 4		
Trial 5		
Average Distance		

Use this grid to create a graph with your 5 trials (same color) and average (different color) for each type of surface. Be sure that the graph has all of the correct parts.



As the ball rolls down the ramp, what type of energy conversion happens?			
How do the different surfaces affect the kinetic energy of the ball after it rolls down the ramp?			
What happens to the kinetic energy of the ball?			