Name: _____   Class: _____

Kinetic Energy in Lacrosse
GRADES 6-8

Elaborate

Mass of ball: 0.15 kg	Pass 1 = 10 meters			Pass 2 = 10 meters		
	Time (s)	Velocity (m/s)	Kinetic Energy (Joules)	Time (s)	Velocity (m/s)	Kinetic Energy (Joules)
Student 1						
Student 2						
Student 3						
Student 4						

| Mass of ball: 0.15 kg	Pass 3 = 10 meters			Pass 4 = 10 meters		
	Time (s)	Velocity (m/s)	Kinetic Energy (Joules)	Time (s)	Velocity (m/s)	Kinetic Energy (Joules)
Student 1						
Student 2						
Student 3						
Student 4						

1. What percent of the Kyle Hartzell shot (111 MPH) was your fastest pass/shot? Example: If you threw at 14 M/S / 50 M/S = 0.28 or 28%. Your fastest pass was only 28% as fast as Kyle Hartzell's shot.

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Evaluate

Graph the kinetic energy vs. your velocity for each throw from slowest to fastest.

(Graph with y-axis labeled "Kinetic Energy" and x-axis labeled "Velocity")
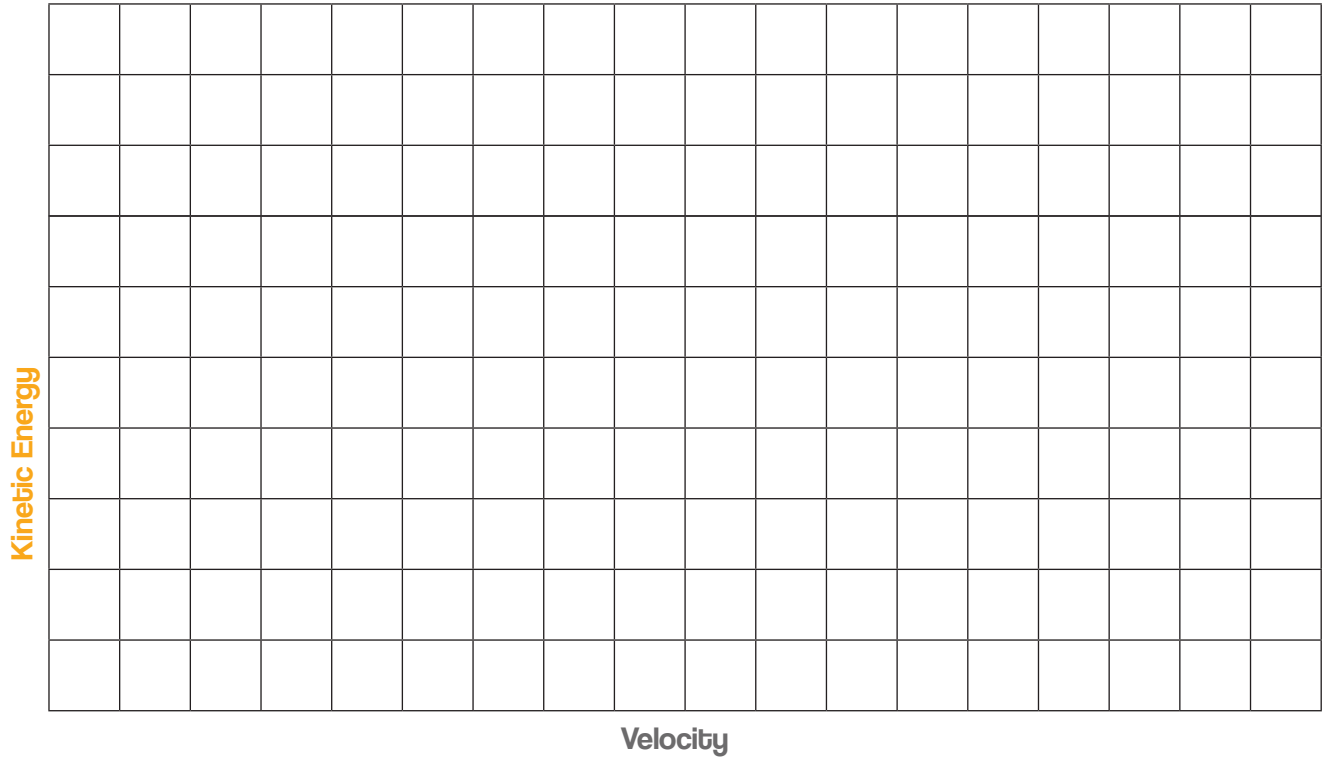
2. Based on your data/graph, explain the relationship between velocity and kinetic energy by making a claim about the relationship. Support your claim with evidence and reasoning.

Claim: What is the relationship between velocity and kinetic energy?

Evidence: Record and reference in words any data that supports your claim.

Reasoning: Explain why your claim is supported by evidence and scientific ideas. Use the kinetic energy formula to support you.