

Name: \_\_\_\_\_

Class: \_\_\_\_\_

# Energy of the Ride

GRADES 6-8

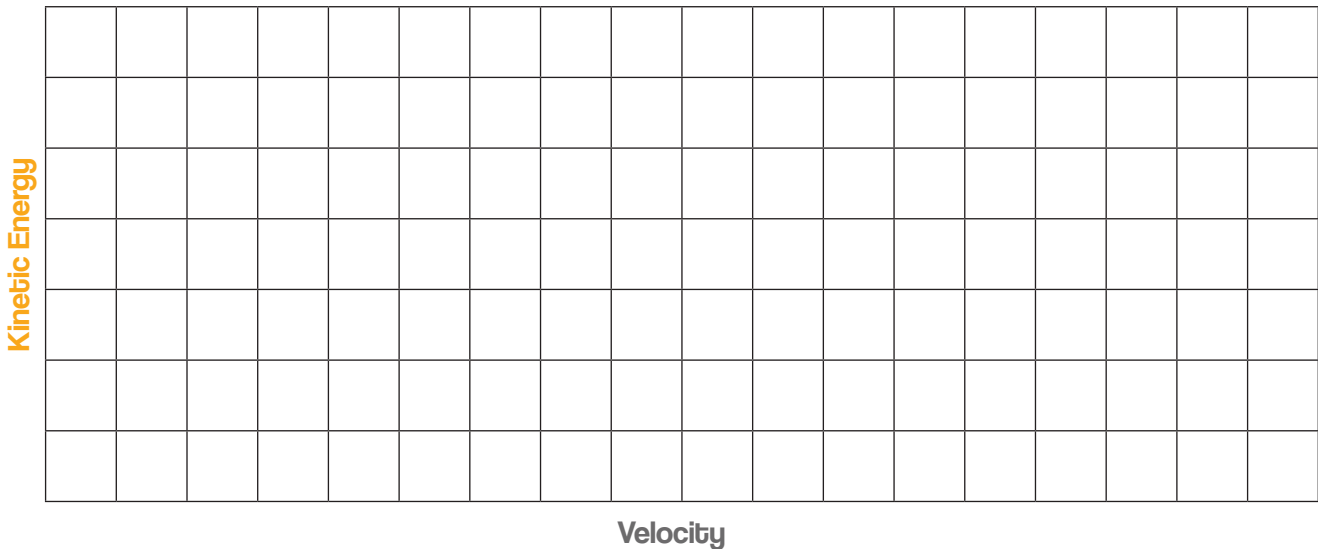
## Explore

What percent of the Denise Mueller-Korenek (183 MPH / 82 meters/second) was your fastest ride?  
 Example: If you rode at 10 M/S / 82 M/S = .12 or 12%. Your fastest ride was only 12% as fast as Denise Mueller-Korenek's ride.

## Elaborate

Ride: 30 meters			
Mass of the bike: 14 kg	Time (seconds)	Velocity (meters/second)	Kinetic Energy (Joules)
Student 1			
Student 2			
Student 3			
Student 4			

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



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## Evaluate

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.