

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

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

# Effective Ball Travel

GRADES 6-8

## Data Collection

	Distance (meters)	Time (seconds)
Kick (in step)		
Kick (laces)		
Throw		

## Calculations

	Initial speed	Final Speed (distance divided by time)	Acceleration (initial-final divided by time)	Mass of ball	Force Acting on ball (Mass times Acceleration)
Kick (in step)	0 m/s			0.43 kg	
Kick (laces)	0 m/s			0.43 kg	
Throw	0 m/s			0.43 kg	

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**Diagrams:** Draw a diagram that shows the amount of force acting on each ball and how it affects the motion.

Kick (in step)	Kick (laces)	Throw