

Name:	Class:
Marric:	

# Softballs vs. Baseballs

**GRADES** 6-8

#### **Data Collection**

	Softball		Baseball		
	Distance (meters)	Time (seconds)	Distance (meters)	Time (seconds)	
Hit 1					
Hit 2					
Hit 3					

#### Calculations:

#### **SOFTBALL**

	Initial speed	Final Speed (distance divided by time)	Acceleration (initial-final divided by time)	Mass of ball	Force Acting on ball (Mass times Acceleration)
Tennis ball	0 m/s			.08 kg	
Golf ball	0 m/s			.05 kg	
Baseball	0 m/s			.14 kg	

#### **BASEBALL**

	Initial speed	Final Speed (distance divided by time)	Acceleration (initial-final divided by time)	Mass of ball	Force Acting on ball (Mass times Acceleration)
Tennis ball	0 m/s			.08 kg	
Golf ball	0 m/s			.05 kg	
Softball	0 m/s			.25 kg	





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### **Extend** only:

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

Underhand Throw/Pitch	Overhand Throw/Pitch