

PROJECTILE MOTION LAB

PURPOSE: TO APPLY MATHEMATICAL KNOWLEDGE OF PROJECTILE MOTION TO REAL-WORLD SITUATIONS.

SUPPLIES

1. METER STICK
2. MEASURING TAPE
3. STOPWATCH
4. TENNIS BALLS (3 PER GROUP)

PROCEDURE

1. Drop (vertically) and throw (horizontally) 3 balls from the same vertical distance (height).
2. Record the vertical distance, horizontal distance, and flight time for each drop and throw.
3. Repeat steps 1-2, using a total of 3 different vertical distances. Make sure your release points are the same distance for drops and throws.

VERTICAL DROP

THROW #	VERTICAL DISTANCE	FLIGHT TIME
1		
2		
3		
1		
2		
3		
1		
2		
3		

HORIZONTAL THROW

THROW #	VERTICAL DISTANCE	HORIZONTAL DISTANCE	FLIGHT TIME
1			
2			
3			
1			
2			
3			
1			
2			
3			