



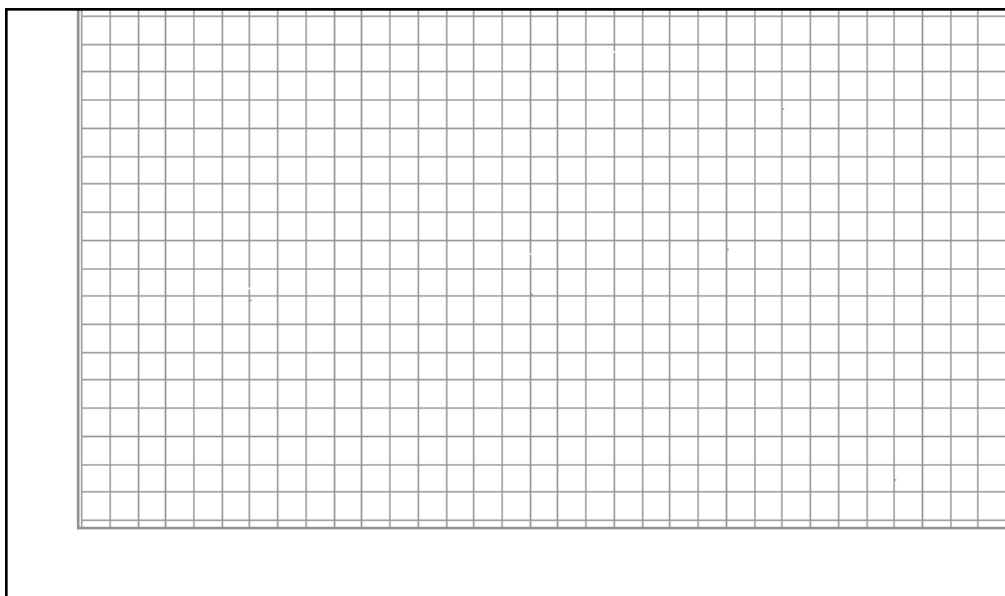
Measurements - radius and velocity:

Use a stopwatch to find the time for 20 revolutions of the rubber stopper. You must be sure to maintain a constant force for **each** of the trials.

	Radius (in m)	Time (20 rev)	Period (1 rev)	velocity (m/s)	v² (m ² /s ²)
1					
2					
3					
4					
5					

Graph the results:

Plot the radius on the Y axis and the square of the velocity on the x axis. Use the slope of the line to calculate the mass of the rubber stopper



Slope

Experimental Mass

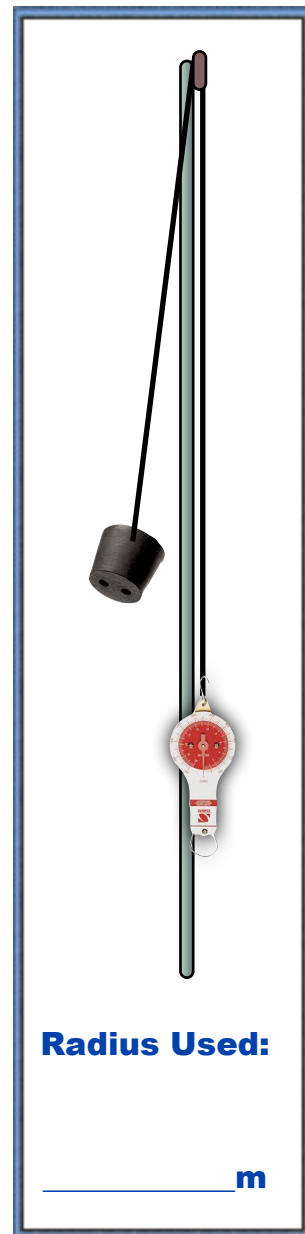
Centripetal Force

Name _____ Date _____

Measurements - Force and velocity:

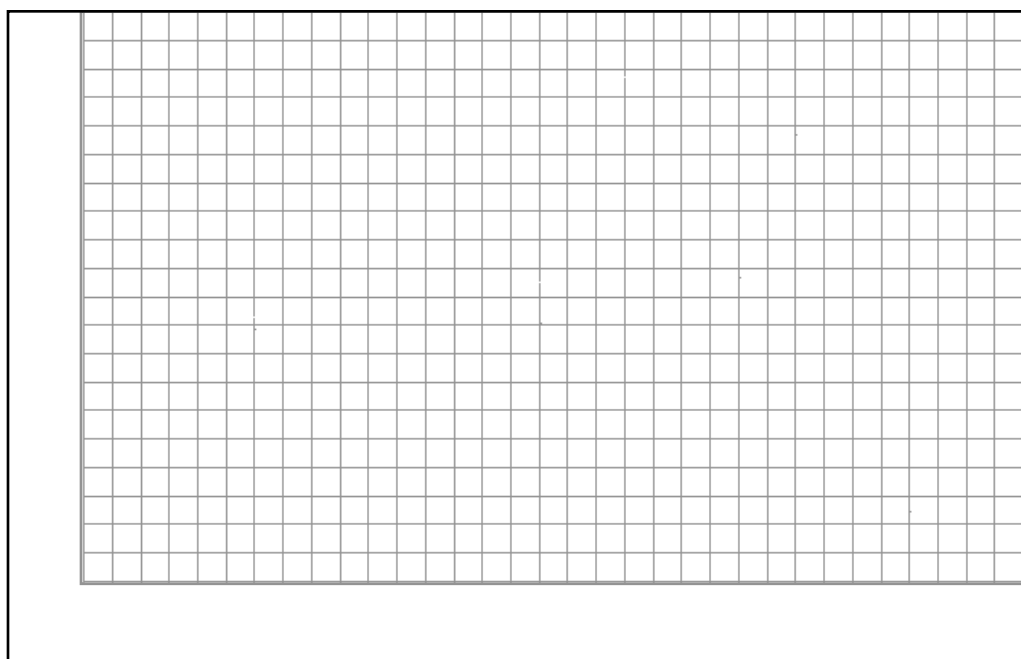
Use a stopwatch to find the time for 20 revolutions of the rubber stopper. You must be sure to maintain a constant radius for **each** of the trials.

	Force (in N)	Time (20 rev)	Period (1 rev)	velocity (m/s)	v² (m²/s²)
1					
2					
3					
4					
5					



Graph the results:

Plot the force on the Y axis and the square of the velocity on the x axis. Use the slope of the line to calculate the mass of the rubber stopper



Slope

Experimental Mass

Grade _____