Name: _____

Date: _____

Period: _____

Lab - Measuring Momentum

Procedure:

1. Gather Materials: golf ball, practice golf ball, 5 lengths of track, stopwatch, meter stick, tape, triple beam balance
2. Measure mass of both balls
3. Assemble track and raise one end to a height of 20cm.
4. Measure last length of track. Record: _____
5. Roll golf ball down track
6. Measure time it takes golf ball to roll last length of track. Record in table below.
7. Repeat steps 4 & 5 three times.
8. Repeat procedure above, but raise one end of track to 30cm.
9. Repeat again with height of 40cm.
10. Repeat procedure for practice golf ball.

Data:

Type of Ball	Height of track	Time to cover last length of track (seconds)				Average time (seconds)	Length of Track (m)	Velocity (m/s)
		Trial 1	Trial 2	Trial 3	Trial 4			
Golf Ball	20cm							
	30cm							
	40cm							
Practice Golf Ball		Trial 1	Trial 2	Trial 3	Trial 4			
	20cm							
	30cm							
	40cm							

Data Analysis: Create a table (with ruler) to organize data and calculate momentum of each ball at each ramp height.

Name: _____

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Data Analysis: Create a table (with ruler) to organize data and calculate momentum of each ball at each ramp height.

Type of Ball	Height of Ramp	Velocity	Mass	Momentum
Golf Ball	20cm			
	30cm			
	40cm			
Practice Golf Ball	20cm			
	30cm			
	40cm			