	/ IB PHYSICS	
	me:	DEVIL Y PHYSICS
Per	iod: Date:	DEVIL PHYSICS OEST CLASS ON CAMPUS
mo est	BJECTIVE: To demonstrate your expertise in imputing the path of an object in parabolic option and to utilize your honed judgment in imating the effects of air resistance and to saibly earn a homework pass.	BALL-IN-THE-CUP EXERCISE Explorations Into Projectile Motion
PR	ROCEDURE:	
gro pro	OTE: Since we only have one apparatus, table oups will have to take turns rotating through the occdure steps. Your teacher will give you the der of table groups.	
1.	You will be assigned either a golf ball or a steel ball to u experiment. Write down the type of ball used.	se for this
2.	Use a caliper to measure the diameter of your ball.	
3.	. Measure the distance from the bottom of the ramp to the floor.	
4.	4. Conduct three trials to determine an average time it takes for the ball to pass through the photogate.	
	a. Trial 1	
	b. Trial 2	
	c. Trial 3	
	d. Average	
5.	Compute the horizontal velocity of the ball at the bottom Show your work below.	of the ramp.
6.	Determine the horizontal distance your ball will travel. Stelow.	Show your work
7.	Place the cup at the distance computed in number 6 above adjustments for air resistance, angle of entry, and height the cup above the floor.	
8.	You have one shot to get the ball in the cup to earn a honyou fail to make it on the first try, you may make adjustness to three more tries to enhance your self-esteem.	•

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Ball In The Cup Exercise Instructions.Docx

This certificate rewards the bearer with one Homework Pass to be used on the Reading Activity or Homework Assignment of their choice.

Name: _____

Assignment:

Teacher:



