INTERNATIONAL BACCALAUREATE

Form 4/PSOW

Internal assessment cover sheet: Group 4 (Except Design Technology)

SUBMIT TO:	MODERATOR	ARRIVAL DATE:	20 APR (20 OCT)	Session:	May/November	2010
SCHOOL CODE:	0 0 0 4 7 4	SCHOOL NAME:	Mt. Rainier High School			

Write legibly using black ink and retain a copy of this form.

Subject: IB Physics	Level: HL Candidate Name:		Session Number: 0 0 0 4 7 4						
Date(s)	Outline of Experiments/Investigations/Projects	ICT	Topic/O ption	Time	D	DCP	CE		
15-Sep-2008	The Moving Man: Simulation to investigate the graphical nature of motion	5	2	1					
23-Sep-2008	Motion: Investigating motion using one of the kinematic equations	1	2	2					
7-Oct-2008	Force: Design an experiment to investigate Newton's Laws of Motion	1	2	2					
10-Oct-2008	Force in One Dimension Simulation: Investigating Newton's 2nd Law	5	2	1					
21-Oct-2008	Water Bottle Rocket Lab: Investigating optimal amount of water for maximum range.		9	2					



Candidate Declaration: I confirm that this work is my own work and is the final version. I have acknowledged each use of words or ideas of another person, whether written, oral or visual.

Candidate Signature: _____ Date: _____

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0 Session Number: 0 0 0 4 7 4 0 0 0

School Name: Mt. Rainier High School

Level: HL

Candidate Name:

Subject: IB Physics

Date(s)	Outline of Experiments/Investigations/Projects	ICT	Topic/ Option	Time	LEVELS AWARDED			
					D	DCP	CE	
27-Oct-2008	Projectile Motion Simulation: Exploring the properties that describe ballistic motion.	5	9	1				
4-Nov-2008	Fight Science: Exploring impact forces for kicks and punches	1	2	1				
18-Nov-2008	Hohmann Transfer Orbits - Using a real-time planetary orbit simulation and applying Kepler's 3rd Law to calculate travel times to other planets.	5	2,6	2				
2-Dec-2008	Egg Drop Experiment: Exploring ways to protect an egg as it impacts the ground.		2	2				
20-Jan-2009	Calorimetry: Measuring the specific heat of oil		3	2				
3-Feb-2009	Waves: Design an experiment to investigate the properties of waves.		4,11	2				
25-Feb-2009	John Travoltage: Exploring accumulation of static charge	5	5	1				
26-Feb-2009	Group 4 - Field trip to a local park. Investigations varied.			10				
5-Mar-2009	Electric Field Hockey Simulation - Using a self-designed array of anchored charges to navigate a test charge through an obstacle course.	5	5,6	1				
12-Mar-2009	Static Charges - Demonstrations and explorations of static charge devices	5	5,6	1				
19-Mar-2009	Electric Field - Using carbon surfaces to map equipotential lines		5,6	2				
24-Mar-2009	Ohm's Law: An exploration into Ohm's Law and resistivity		5	2				
7-Apr-2009	Circuit Diagrams - Simulation to explore current and voltages in circuits	5	5	1				
21-Apr-2009	FM Transmitter	5	5	1				
19-May-2009	Biot-Savart Law - Investigating the relationship between magnetic force and distance	1	6	1				
2-Jun-2009	Magnetic Shielding - An exploration into the shielding effects of a variety of metals on magnetic fields.	1	6	1				
16-Sep-2009	Design Experiment: Polarization		11,A	2				

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Level: HL Candidate Name:

0 Session Number: 0 0 0 4 7 4 0 0 0

Data(s)	Outline of Experiments/Investigations/Projects	ICT	Topic/ Option	Time	LEVELS AWARDED			
Date(s)					D	DCP	CE	
28-Sep-2009	Radiation Fields: Simulation to investigate near and far field properties	5	6,G	1				
16-Oct-2009	009 Lens Optics: Simulation that investigates image properties from lenses		G	1				
20-Oct-2009	Snell's Law: Experiment to determine the index of refraction of glass		4	1				
27-Oct-2009	Design Experiment: Determine the index of refraction of a liquid		4	2				
16-Nov-2009	Wave Interference: Determining the wavelength of a He-Ne laser	2	4,11,G	1				
23-Nov-2010	Wave Speed: Using an interferometer to measure the speed of microwaves	2	4,11,G	1				
1-Dec-2010	Spectroscopy: Using a diffraction grating to identify the spectra of a gas	2	4,11,G	1				
6-Jan-2010	The Photoelectric Effect: Simulation to investigate PE effects		13	1				
9-Feb-2010	PN Junction Diode: Simulation to investigate IV characteristics of diodes.	5	C,F	1				
18-Feb-2010	Design Experiment: Student created practical	2		2				
3-Mar-2010	Design Experiment: Half-Life		7,13	2				
16-Apr-2010	g-forces: Collecting data on fair ride accelerations	1	2	5				

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Total Hours 60