							Number of	
							Individuals who have	
Experiment	Location	Fire	Chemicals	Electricity	Short Description of the Activity	Number of Volunteers	volunteered	Individuals Assigned to this Activity
					A red or green laser beam is passed through a leaking			
					bottle to demonstrate how light is bent by the water			
Total Internal Reflection	general	no	no	no	stream	1	1	PHSC 170 students
					A fog machine is used to fill a trash can with smoke and			
Smoke Rings	general	no	no	ves	a smoke ring is generated by tapping the base of the trash can	2	,	PHSC 170 students
SHORE KINGS	general	110	110	yes	trasir carr		Δ	PH3C 170 students
					Club soda is cooled in an ice-salt bath and, when			
Seltzer Freeze	general	no	no	no	opened, the contents of the bottle instantly freeze	2	2	Desiree De La Torre, Lissette Gutierrez
Jeitzer Freeze	general	110	110	110	Students explore a chemical reactionthe reaction of		2	Desiree De La Torre, Lissette Gutierrez
					Alka Selzer tablets with water and perform an			
					experiment regarding the effect of the amount of alka			
					selzer and water temperature on the rate of the			
Alka Selzer Rockets	general	no	no	no	reaction	2	1	Gabriel Alcantar
					Compressed carbon dioxide is admitted to a chilled			
					water bottle to a pressure of approximately 40 - 50 psi			
					resulting in dissolution of the gas in the water and			
Make your own soft drink	general	no	no	no	carbonation of the drink	2	2	Eric Valenzuela, Nicole Jernigan-Smith
					Solutions of phenolphthaline, dilute sodium hydroxide,			
					and vinegar are mixed resulting in the appearance and			
Magic Pitcher	general	no	yes	no	disappearance of a pink color.	2	2	Gloria Ramirez, Shelly Alvarado
					Pieces of dry ice are added to a flask containing various			
					pH indicators and sodium hydroxide resulting in color			
					changes as the carbon dioxide causes the solution to			
Dry Ice Acidity Change	general	no	yes	no	gradually become more acidic.	1	1	Elizent Angud, another?
					A mixture of glucose, potassium hydroxide, and indigo			
					carmine indicator are mixed; as the flask is stirred color			
					changes occur as a result of reduction of the indicator			
					by the glucose followed by air-oxidation of the			
					indicator. Same experiment can be conducted with			
Traffic Light	general	no	yes	no	methylene blue	1	1	Sundee Olson
					Three concentrations of hydrogen peroxide (3%, 12%,			
					and 30%) are mixed in a large graduated cylinder with			
					liquid detergent and either yeast or sodium iodide to			
					cause oxygen gas to be released. A column of foam			
					exits the cylinder which resembles toothpaste on a			
Elephant Tooth Paste	general	no	yes	yes	giant scale.	2	2	Rebecca Smith-Grid, Taylor Olmstead
					A large pickle is placed across the electrodes of an			
					isolation transformer resulting in the pickle glowing			
Glowing Pickle	general	no	no	yes	from sparks within the pickle.	1	1	Edgar Arellano
					Pig lungs are inflated and deflated using a hand pump			
					and a balloon demonstration is provided as a			
Pig Lungs	general	no	no	no	comparison to the lungs.	1	1	Afua Adjekum
					A petri dish containing an acid-base indicator has			
Marking land Clarked					electricity passed through it leading to swirls of color			
Muticolored Electrolysis	general	no	no	yes	from one of the electrodes	1	0	
					Wide and to continue brokkland the control of the control			Freshin Canada China T. January Al
Ciant hubbles	ganaral				Kids make various bubbles using speciality bubble	4	4	Evelyn Garcia, Shiva Tadayon, Alyssa
Giant bubbles	general	no	no	no	solution mixtures. Includes standing in a large bubble.	4	4	Leland, Tina Herda
					Bubbles are generated using carbon dioxide from dry ice leading to bubbles that one can hold using gloves			
Boo Bubbles	general	no	no	ves	the pop to form a white cloud			Ashley Walters, David Seery
DOO DUDDIES	Belleral	110	110	yes	the pop to form a write cloud		Z	Asiliey Walters, David Seery

		1	1	1	A Cletudant valuntaar lies dawn on a had of nails with			
					A CI student volunteer lies down on a bed of nails with an apple between the nail bed and themselves;			
D. J. CM 3					participants can attempt to pop a balloon on a mini-	2		8 - 6 8 2 1/- 11 1 1 1 - 1 -
Bed of Nails	general	no	no	no	bed of nails.	<u> </u>	0	Prof. Britnee Veldman, Jonnica Alabart
					Mentos candies are placed in a 2L soda bottle leading			
Mentos	general	no	no	no	to a jet of soda being blasted out of a hole in the lid	2	2	Whitney Cromley, Catalina Yang
Liquid nitrogen effects: including ballon	general	110	110	110	to a jet of soud being blasted out of a flore in the lid		-	whichey cromicy, catalina rang
shrinkage, coldness and hardness, ping por	ng							Alina Mitina, James Wondra, Michael
flong, supercold candy bars, and dragon's					Various activities including shrinking of long balloons,			Ono, Kyle Nichols, Jasmine Arroyo,
breath	general	no	no	no	spinning of ping pong balls,and freezing candy bars	6	6	Charles Tran
	Berrera					<u> </u>	-	Dylan Riggs, Courtney Collins, Jason
Liquid nitrogen Dippin Dots	general	no	no	yes	Liquid nitrogen is used to make homemade ice cream.	3	3	Abrahams
					Mosquito larvae, other interesting micro-organisms are			
Critter Microscopy	general	no	no	yes	observed using a microscope	2	1	Claira Castillo,
Rocks Rock!	general	no	no	yes	Various rocks are displayed along with their properties	4	4	GEOL 300 students
					A bowl is filled with soapy water and dry ice is added			
					leading to a large bubble forming that resembles a			
Dry ice crystal ball	general	no	no	yes	crystal ball	2	2	Phillip Hernandez, Tracey Tumbale
					A van de Graaf generator and plasma globe are used to			
Its electrifying	general	no	no	yes	light neon bulbs and fluorescent light bulbs.	2	2	Christopher Knowles, Cameron Embree
								Brittany Holmes, Gerardo Rodriguez,
								Analuisa Sanchez, Rolando Garcia, Jonnic
					Students perform a dig for artifacts by sifting soil and			Alabart, Alana Spencer, Karissa Neri,
Adventures in Archaeology	general	no	no	yes	analyzing what they found in the soil	8	8	Emily Largey
Math Fun	general	no	no	no	Mathematical curiousities	6	6	Prof. Cindy Wyels, Jennifer Clinkenbeard
					Fluorescent dyes are displayed under a black light to			
					show the different colors of light given off, a solution			
					of TCPO (glow stick chemical) reacts with bleach, and			
Dr. Glow & Dr. Lumos	general	no	no	yes	luminol reacts with hydrogen peroxide	2	2	Angad Maroke, Prof. Jennifer Mallory
Dr. Glow & Dr. Edillos	general	110	110	yes	A suitcase containing a spinning wheel (a gyroscope) is		-	Angua Waroke, Fron Seminer Wandry
					moved by students leading to the demonstration of			
Haunted Suitcase	general	no	no	yes	the gyroscope effect.	1	1	Teri Keller
				,	<i>5,</i> .			
					Various physics activities related to strength and force			
Feats of Strength/ PHSC 170	general	no	no	yes	conducted by the Physical Science class students	8	8	PHSC 170 students
					A magnetic top is spun above a magnet leading to a			
Magnetic Floating Top	general	no	no	no	levitating top.	1	1	Waheed Akberzie
		1			Hair spray is sprayed into a film cannister containing a			
		1			piezoelectric ignitor; on clicking of the ignitor, the lid			
Film canister pop	general	no	yes	no	pops off of the film cannister resulting in a "pop".	1	0	
1					Mirrors are used to direct a laser pointer beam around			DUSC 170 : 1 :
Laserpointer Mazes	general	no	no	no	obstacles on a table. Gas discharge tubes are excited using a high voltage	<u> </u>	2	PHSC 170 students
					source leading to different colors of light being given			
		1	1		off	1	1	Westmont students + Steve Contakes
Colorful Gases	general	no	no	VAC				
Colorful Gases	general	no	no	yes		*	1	Westmont students Steve Contakes
					The physics behind sailing is demonstrated by the CI	4	0	Westmont students + Steve contakes
Colorful Gases Physics of Sailing	general general	no	no	yes	The physics behind sailing is demonstrated by the CI sailing team	4	0	westmont students + steve contakes
					The physics behind sailing is demonstrated by the CI	4	0	Westmont students + Steve Contakes

	T		1	l	Dry ice is added to punch leading to a bubbly cauldron		1	
Punch carbonation/ cauldron	general	no	no	no	of carbonated punch.	2	0	
Turicin carbonation, cautaron	general	110	110	110	or carbonatea parien.		Ŭ	Jennifer Frye, Nick Capute, Gabriela
Dark Knight Radar	general	no	no	no	Participants attempt to locate a Robin	3	0	Magana
					Various midway carnival games are displayed and the			
Science of Midway Games	general/ games	no	no	no	science/ physics behind them is discussed	8	8+	Hueneme High school
Air-ball bowling	general/ games	no	no	no	An air cannon is used to knock down plastic cup.	2	2	PHSC 170 students
					Electricity is run through a pencil lead using a variable			
					voltage/ current power supply and the effect of			
					different gases in a glass chamber on the longevity of			
Mechanical Pencil Lead Light Bulb	general	no	no	yes	the light source is examined.	1	1	Daniel Jordan
					Kids examine the expansion of a water-swelling			
					polymer, polyacrylic acid, in the presence of water			
Bolymor Snow	gonoral	no	no	no	resulting in artificial "snow" and the effect of added water and salt on the snow.	2	1	Donna Chico,
Polymer Snow	general	no	no	no	Kids fill a balloon with sand using a vacuum chamber to	2	I	Donna Criico,
					inflate the balloon/ demonstrating how the lungs			
Make Your Own Stress Ball/ Juggling Ball	general/ make n' take	no	no	no	work.	2	2	Charles Ellis, Scott Souza
Water Four CWI Seress Barry suggining Barry	general, make it take				White glue is mixed with laundry borax leading to the	_	-	charles Ellis, scott scala
Glue Gak	general/ make n' take	no	yes	no	formation of gak	8	8	Westmont students + Steve Contakes
	<u> </u>		,					
					Sterling Engine, Crooke's tube, Hoffmann apparatus,			
Machines and Elements	general	no	yes	yes	and a small collection of element samples	6	6	Westmont students
								Haidi Ahmed, Jose Castellon, Stephanie
								Norris, Janet Garcia, Rosa Moreno,
					A solution of polyvinyl alcohol in water is mixed with			Marady Mesa, Prof. Simone Aloisio,
PVA Slime	general/ make n' take	no	yes	no	laundry borax leading to the formation of slime	8	7	Bianca Terminello
					Kids use glue to create a drawing which is then			
					sprinkled with glow powder; the resulting art created			Kassandra Stanwood, Andrea Torres,
Glow powder drawings	general/ make n' take	no	no	yes	will glow in the dark.	3	3	Geena Selle
	.,				A hex nut is placed in a balloon which leads to a loud			
Screaming Balloon/ Helium balloons	general/ make n' take	no	no	no	noise as the balloon is twirled.	1	0	
								Vince Crisostomo/ Moorpark College,
					A solution of sodium alginate is added to calcium ions			Claire Stachelrod, Samuel Johnson, Inesita
					resulting in beads or worms, depending on the mode			Jong, Samir Mohan, John Vivero, Shervin
Sodium Alginate Gel Beads and Worms	general/ make n' take	no	yes	no	of mixture of the two solutions	8	8	Shahsavar, Blanca Grande
					Water-soluble magic markers are used to draw on filter			
					paper and then the dye components separate as the			
					filter paper is placed in a glass containing water/ as the			
Tye-dye magic markers	general/ make n' take	no	no	no	water wicks up the filter paper.	1	1	Maria Villicana, ?
					S. J.			
NATION VICTOR OF LITTER					Students combine stearic acid, glycerine, fragrances,			Vantura Callana
Make Your Own Lotion	general/ make n' take	no	yes	yes	and cetyl alcohol to make their own lotion	4	4	Ventura College
Prints of the Past	ganaral/ maka ni taka	20		no	Kids get to make their own cast of a fossil mold using plaster	2	,	Cassidy Adlof + parents
Roving with Robotics	general/ make n' take general	no no	no no	no no	plaster Kids interact with a LegoMindstorms robot	1	1	Cassidy Adlof + parents Jessica Adlof
Noving With Nobotics	general	110	110	110	Mas interact mith a regolaminastollis Lonor	1	1	JESSICA AUIUI
					Various activities related to crime scenes including			
					making giant glowing fingerprint helium balloons and			Katie Bradshaw, Marian Coyne, Sandra
CSI @ CI	general/ parental guidance	no	no	yes	observing fake blood stains using luminol	6	3	Cruz,
	U		1	,				Lupe Magana, Jessica Le, John Butzer,
Dissecting a Cow Eyeball/ Sheep Heart	general/ parental guidance	no	no	yes	Dissection of sheep/ cow eyeballs	5	5	Lorna Profant, Bryn Aquino
	-							
					Totals	157		
					<u>, </u>			
	i	1	1	l			Number of	
					I I			
Experiment	Location	Fire			Short Description of the Activity	Number of Volunteers	Individuals who have volunteered	

					Air compressors are used to compress air in a			Erika Schutte, Noelle Esquer, Tanya
					marshmallow shooters and students examine the			Lindlau, Troy Rogerson, Brianna Miana,
					effect of the angle of trajectory and air pressure on the			Lisa McLaughlin, Ted Peterson, Tobin
Marshmallow Cannon	field	no	no	yes	distance that the marshmallow is shot	8	8	Streamland
				,	Air compressors are used to pressurize a PVC manifold	-		
					and used to launch a student-built rocket made from			
Rocket Launchers	field	no	no	ves	cardboard	8	8	Ventura College
ROCKET LAUTICITETS	lield	110	110	yes	Caraboara	0	0	ventura College
Talanana	field	no	no	no	Telescope focused on Jupiter and the moon	1	0	
Telescope	neid	no	no	no	relescope rocused on Jupiter and the moon	1	U	
					_			
					Totals	17		
							Number of	
							Individuals who have	
Experiment	Location	Fire	Chemicals	Electricity	Short Description of the Activity	Number of Volunteers	volunteered	
•					A soda can partially filled with water and having a hole			
					on one side is heated over a butane torch resulting in a			
					stream of steam vapor exiting through the hole and			
Spinning Can	fire area	1100	20		causing the can to spin.	1	0	
Spirining Cari	life area	yes	no	no	causing the can to spin.	1	U	
					Various metal salts are dissolved in ethanol and			
Colored Flames	fire area	yes	yes	no	sprayed into the flame of a butane torch	1	1	Haley Neel
					Isopropanol is placed in a large polycarbonate water			
					bottle and ignited with a spark source leading to a jet			
					of flames exiting the bottle and propelling a Nerf ball			
Alcohol Jug Jet	fire area	yes	yes	yes(?)	out of the mouth of the bottle.	1	0	
		,	,	, (- ,	A hard-boiled egg is placed over the opening of a flash			
					into which a flaming, isopropanol soaked cotton ball is			
					dropped; as the flame extinguishes a vacuum is			
					generated that pulls the egg into the flask. Heating of			
					the flask with a hair dryer causes the egg to come back			
Egg in a Bottle	fire area	yes	yes	yes	out of the flask	1	1	Julio Almazan
					A dollar bill is soaked in rubbing alcohol containing			
					water and set on fire to demonstrate that the bill does			
Money burning	fire area	yes	yes	no	not burn	1	1	Lace Granatelli
					A water-filled balloon and a cup filled with water are			
Amazing Feats of Fire	fire area	yes	no	no	heated to boiling over a butane torch	1	1	Phoi Tiet
		7			A metal tube is filled with propane gas and music is	=	_	
					played in one end leading to the formation of a			
Ruben's Tube	fire area	voc	20	no		2	2	Alexis Zumbrunn, Emily Broughton
nabeli's Tube	fire area	yes	no	110	standing wave of flame across the tube.	Δ	Z	Alexis Zumbrumi, Emily Broughton
					A penny is soaked in a mixture of zinc powder and			
					sodium hydroxide and then heated on a hot plate			
Gold and Silver Pennies	fire area	yes	yes	yes	leading to silver and gold pennies	0	0	Lace Granatelli
					Г			
					Totals	8		
							Number of	<u></u>
							Individuals who have	
Experiment	Location	Fire	Chemicals	Electricity	Short Description of the Activity	Number of Volunteers	volunteered	
	-		1		A cup is placed over a piece of calcium carbide in a			
					water trough and a spark source/ flame is used to			
					ignite the acetylene gas in the cup causing the cup to			
	domo			V05 (2)		4	4	louios MA
	demo area	yes	yes	yes (?)	launch into the air Potassium chlorate is melted in a large test tube using	1	1	Javier Mercado
Acetylene Rockets				i	POTASSIUM COLORATE IS MEITED IN A large test tube lising			
Acetylene Rockets					_			
Acetylene Rockets					butane torch and a gummy bear is added; a dramatic			
Acetylene Rockets Gummy Bear Sacrifice					_			Alex Benitz

Popcorn, Cotton Candy	food court	no	no	yes	Food court items	4	0	
Food Court	Location	Fire	Chemicals	Electricity	Short Description of the Activity	Number of Volunteers	Number of Individuals who have volunteered	
					Totals	11	0	
Sen-Carving Pumpkin	defilo area	yes	yes	yes	Jour of the pullipkill	Ζ ΄	Δ	Juei Bellats, Reisie Buatwilght
Self-Carving Pumpkin	demo area	yes	yes	yes	A carved pumpkin (removed face pieces still intact) is filled with hydrogen gas and a spark source/ flame causes a minor explosion that propels the face pieces out of the pumpkin	2	2	Joel Sellars, Kelsie Boatwright
Simulated Grain Silo Explosion	demo area	yes	no	no	Lycopodium powder or coffee creamer are ignited in a large coffee can resulting in popping of the lid off of the coffee can	1	0	
Eerie Green Glow	demo area	yes	yes		Boric acid and methanol react in the presence of sulfuric acid resulting in trimethylborate which burns with a green flame	1	1	Katia Nava
Dry Ice/ Magnesium Lantern	demo area	yes	yes		Magnesium turnings are ignited between two blocks of dry ice resulting in a dramatic display of light and smoke	1	1	Claudina Cammack
Butane Mamba	demo area	yes	yes	no	Butane gas is bubbled through a soap solution resulting in flammable bubbles that are ignited on the demonstrator's hands	2	2	Aurora Ginzburg, Heather Kumiyama
Hydrogen Balloon Explosion	demo area	yes	yes		A balloon is filled with hydrogen gas and exploded with a hot filament/ flame leading to a loud bang	1	1	Shawn Pope
Sugar Pyrotechnics	demo area	yes	yes	no	A mixture of sugar and potassium chlorate is placed on a fireproof mat and a drop of concentrated sulfuric acid is added to the mixture resulting in dramatic flames and smoke	1	1	David Ashley

4

Totals