THE REFRACTION OF LIGHT

NAMES: _____

PERIOD _____

Part 1 (10 pts.)   The Index of Refraction of Water

trial #	h (mm) calculated WL#-Re#	h' (mm) calculated WL#-Un	h/h' calculated	calculated accepted value	% error
1					
2					
Average…					

Part 2   ON BACKSIDE

Part 3 (8 pts) diagrams

Just staple diagrams to the back of this paper

Questions: (1 pt each)

1

2

3

4

5

6

7

(1 pt each)   Conclusions and Summaries on back of Part 3 sketches.

Part 2	Snell's Law							
(6 points data table)			measured	measured	known	calculate		
diagrams attached	Block		air into unknown material					
7 pts	Names	Type	angle i	angle r	n_i	n_r	Surface 1	
diagram alone			degrees	degrees			average n's	unknown?
1		Glass						
			measured	measured	calculate	known	Surface 2	
			unknown material into air					
			angle i	angle r	n_i	n_r		
			degrees	degrees				
2		Plastic	measured	measured	known	calculate		
			air into unknown material					
			angle i	angle r	n_i	n_r	Surface 1	
			degrees	degrees			average n's	unknown?
			measured	measured	calculate	known	Surface 2	
			unknown material into air					
			angle i	angle r	n_i	n_r		
			degrees	degrees				
3		Specimen						
			measured	measured	known	calculate		
			air into unknown material					
			angle i	angle r	n_i	n_r	Surface 1	
			degrees	degrees			average n's	unknown?
			measured	measured	calculate	known	Surface 2	
			unknown material into air					
			angle i	angle r	n_i	n_r		
			degrees	degrees				