

Light Device Project & Paper

You will design, build and demonstrate a light device for the class. The device should be designed to use reflection, refraction, diffraction or a combination. Extra credit will be granted for those that combine more than one light property. This is done as individuals. The grading rubric is as follows:

Short paper and sketch	Pos.	Earned
Describe your design. (Design points given based on creativity, originality, workmanship of the device.)	5 pts.	
Identify and explain thoroughly the basic physics. (Use sketches, ray diagrams, appropriate equations...)	5 pts.	
Labeled sketch. (Use back.)	3 pts.	
Instrument		
Device built	5 pts.	
Instrument able to accomplish desired effect.	2 pts.	
Extra Credit (More than one light property.)	1 pt.	
Total Points	20	

Due Date April 28-29