PS 100 Experiment 6, Chapter 11

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Name (print)	NetID	Section	_TA
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Name (print)	NetID		
Name (print) Title: Photoelectric effect	NetID		

Objectives: Students will observe and describe the photoelectric effect.

Instructions: Fill out the If , and, then portion of the worksheet. Then, watch the video clip demonstrating the photoelectric effect. <u>http://ps100.byu.edu/homework/14photo.wmv</u>

Wave model for light	"Particle" model for light		
If light is a wave	If light is made up of photons		
And I want to knock electrons off of a negatively charged electroscope, I can vary the energy by	And I want to knock electrons off of a negatively charged electroscope, I can vary the energy by		
Thenwhat should happen and why	Thenwhat should happen and why		
And/But: Watch the video at <u>http://ps100.byu.edu/homework/14photo.wmv</u> What happens?			
Therefore:	Therefore:		

If the experiment is repeated when the electroscope is positively charged, what do you predict would happen? Why?