

## Chapter 4

# Photon Model of Light

### Lesson 1

## The Photoelectric Effect

- The Photoelectric effect
- The Photoelectric effect experiment

### Lesson 2

## Analysis of the photoelectric experiment

### Lesson 3

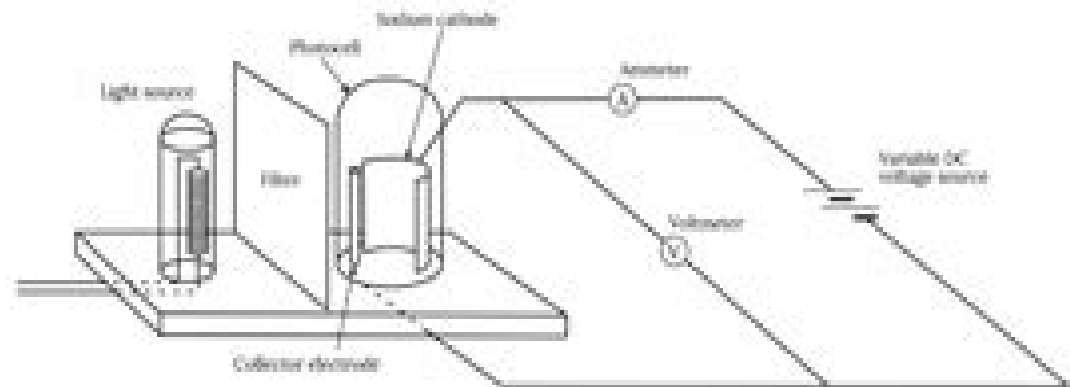
## Einstein's Explanation of the Photoelectric Effect

### Lesson 4

## Comparing Classical & Photon Models of Light

## Method

The figure below is a schematic diagram of the apparatus (photocell) that can be used to explore this phenomenon.



1. Select a frequency of incident light.
2. Illuminate the metal plate (cathode).
3. Check the ammeter for any current reading.
4. **If the current is not detected in the ammeter**, increase the frequency of incident light and check for any current in the ammeter.
5. **If the current is detected in the ammeter**, then reverse the voltage across the cathode (metal plate) and anode (collector electrode). Increase the negative voltage at the collector electrode until the current reading in the ammeter drops to zero. Record the voltage reading. This is called the stopping voltage or potential.
6. Repeat steps 1-5 for five more frequencies of incident light.

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**Camilla Rothe**



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