	Light above a certain threshold is able to free electrons from a metal, because the light gi	
	energy to electrons in the metal.  Some of this energy is used to release the	
	electrons from the metal and the rest becom	es
	kinetic energy of the freed electron.	
Discuss wh	nether the student's answer fully explains the photoelectric effect.	(4)
) TTI		
o) The studen	t sets up a circuit to investigate the photoelectric effect.	
	light	
	photocell	
	t illuminates the photocell with light of known frequency f. A current	
is produced difference,	photocell	
is produced difference, records the other freque	t illuminates the photocell with light of known frequency $f$ . A current in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light.	for
is produced difference, records the other freque	t illuminates the photocell with light of known frequency $f$ . A current in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_{\rm s}$ on the voltmeter. He repeats this procedure	for
is produced difference, records the other frequence. When the remitted electric Explain hor	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other frequence. When the remitted electric Explain hor	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other frequence. When the remitted electric Explain hor	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other frequence. When the remitted electric Explain hor	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other frequence. When the remitted electric Explain hor	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other frequence. When the remitted electric Explain hor	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other freque When the r emitted elec-	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other freque When the r emitted elec-	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other freque When the r emitted elec-	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other freque When the r emitted elec-	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other freque When the r emitted elec-	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other freque When the r emitted elec-	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other freque When the r emitted elec-	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other freque When the r emitted elec-	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other frequence. When the remitted electric entitled electric explain hor constant has been described by the constant ha	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light. The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .	for
is produced difference, records the other frequence.  When the remitted electric Explain hor constant has been constant	t illuminates the photocell with light of known frequency $f$ . A current $f$ in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light.  The reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .  We the student can use his results to determine a value for the Planck using a graphical method.	for
is produced difference, records the other frequence.  When the remitted electric Explain hor constant has been constant	t illuminates the photocell with light of known frequency $f$ . A current in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light.  reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .  when the student can use his results to determine a value for the Planck using a graphical method.	(5)
is produced difference, records the other frequence.  When the remitted electric Explain hor constant has been constant	t illuminates the photocell with light of known frequency $f$ . A current in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light.  reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .  when the student can use his results to determine a value for the Planck using a graphical method.	(5)
is produced difference, records the other frequence.  When the remitted electric Explain hor constant has been constant	t illuminates the photocell with light of known frequency $f$ . A current in the circuit due to the emitted electrons. He adjusts the potential using a potential divider, until the reading on the milliammeter is zero corresponding reading $V_s$ on the voltmeter. He repeats this procedure encies of light.  reading on the milliammeter is zero the maximum kinetic energy of the ctrons is given by $eV_s$ .  when the student can use his results to determine a value for the Planck using a graphical method.	(5)