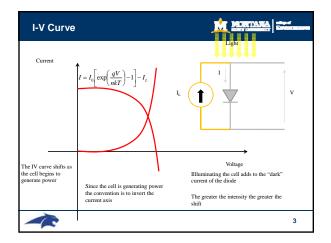
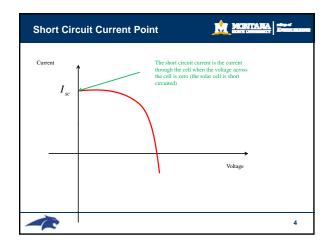
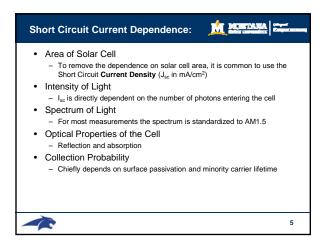
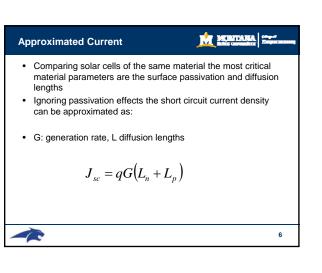


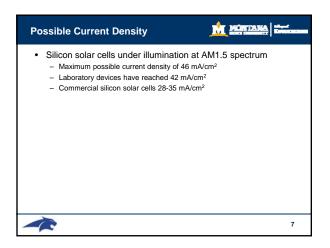
Solar Cell Parameters	
Quantum Efficiency	$QE = \frac{\# \text{ of EHP Collected}}{\# \text{ of Photons}}$
Spectral Response	$SR = \frac{\text{Electrical Current Out}}{\text{Optical Power In}}$
Open Circuit Voltage	Output Voltage with no current flow
Short Circuit Current	Output Current with no load
I-V Curve	Plot of the Current versus Voltage for varying loads
	Ratio of operating current and voltage product to the product of short circuit current and open circuit voltage
Efficiency	$\eta = \frac{\text{Electrical Power Out}}{\text{Optical Power In}}$
	2

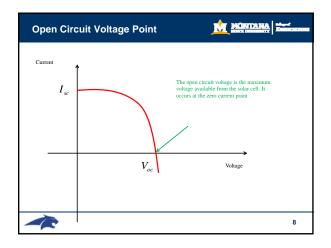


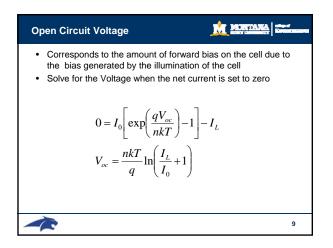


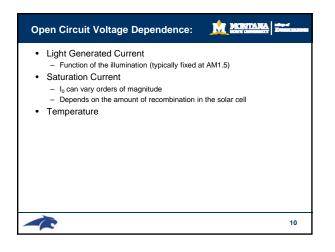












Possible Voltages 🕺 🧘 🗄	CHEVINA Compare Englishmenter
 Silicon solar cells under illumination at one sun a spectrum Laboratory devices have reached 720 mV Commercial silicon solar cells 500-600 mV 	and AM1.5
	11

Power & IV Curve	moning
 Power (Watts) is the rate at which energy (Joules) is supplied by a source or consumed by a load It is a rate not a quantity The power output by a source is the product of the current supplied and the voltage at which the current wa supplied Power output = Source voltage x Source current P=V x I (Watts = Joules/second) = (Volts)x(Amperes) By changing the resistance of the load different currents and corresponding voltages can be measured and plotted 	
*	12

