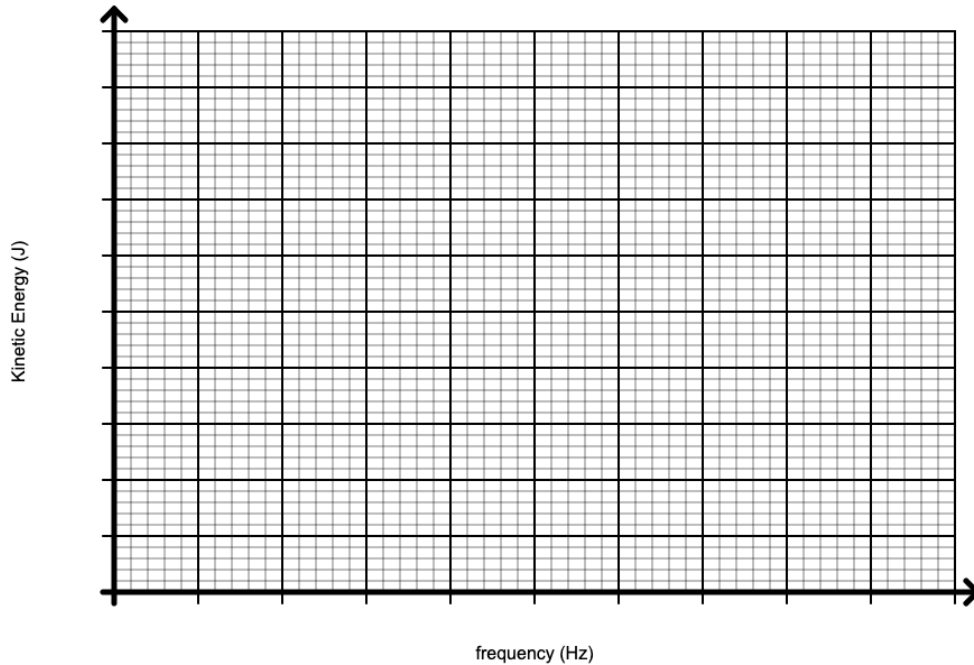


Threshold Frequency Problem

Step 1: Measure the minimum voltage that is able to stop electrons from reaching the left hand plate for five different wavelengths. For each trial, calculate the frequency of the light and the KE of the electrons that were stopped by the voltage. Put your information in the chart below

Wavelength (nm)	Frequency (Hz)	Stopping Voltage (V)	Kinetic Energy (J)

Step 2: Use a graphing program or graph by hand. The kinetic energy should be on the y-axis and the frequency is on the x-axis. Either way, complete the graph below



Step 3: Use the equation of your graph to find the threshold frequency of your unknown material. Show your work in the space provided below