

Result:

1. Violet, blue, and green light cause electrons to be emitted from Na. The maximum wavelength is 539 nm.
2. The graph is a straight line that passes through the origin; this means that, if electrons are being emitted, the current is directly proportional to light intensity.
3. The graph is a straight line. It differs because it does not pass through the origin. This implies that there is a minimum frequency below which no electrons are emitted (and so there is no current).
4. A graph of number of electrons emitted vs wavelength would look like the graph at the right. If you increased the intensity of light the left side of the graph would be higher but the vertical part would be at the same wavelength.

