**CHE1031 Tutorial: Discovery of the electron – cathode ray tube expt.[[1]](#footnote-1)**

**VIDEOS:**

‘Discovery of the electron – the cathode ray tube experiment’ from Tyler DeWitt

<https://www.youtube.com/watch?v=Rb6MguN0Uj4&list=PL3hPm0ZdYhyxYBS94sd8iqDttfDiaY19Z&index=2>

**Please watch the video and then answer these questions:**

1. What does DeWitt get wrong about the identity of the man who performed the cathode ray experiment and discovered the electron?
2. What is a cathode ray tube? Describe it
3. What two forces did Thomson use to deflect the beam in the cathode ray tube and demonstrate that it was negatively charged?
4. What aspect of Thomson’s conclusions isn’t explained well in the text or this video?
5. What metals could be used as electrodes to produce beams of electrons in the cathode ray tube?

1. ‘Discovery of the electron – the cathode ray tube experiment’ from Tyler DeWitt

   <https://www.youtube.com/watch?v=Rb6MguN0Uj4&list=PL3hPm0ZdYhyxYBS94sd8iqDttfDiaY19Z&index=2> [↑](#footnote-ref-1)