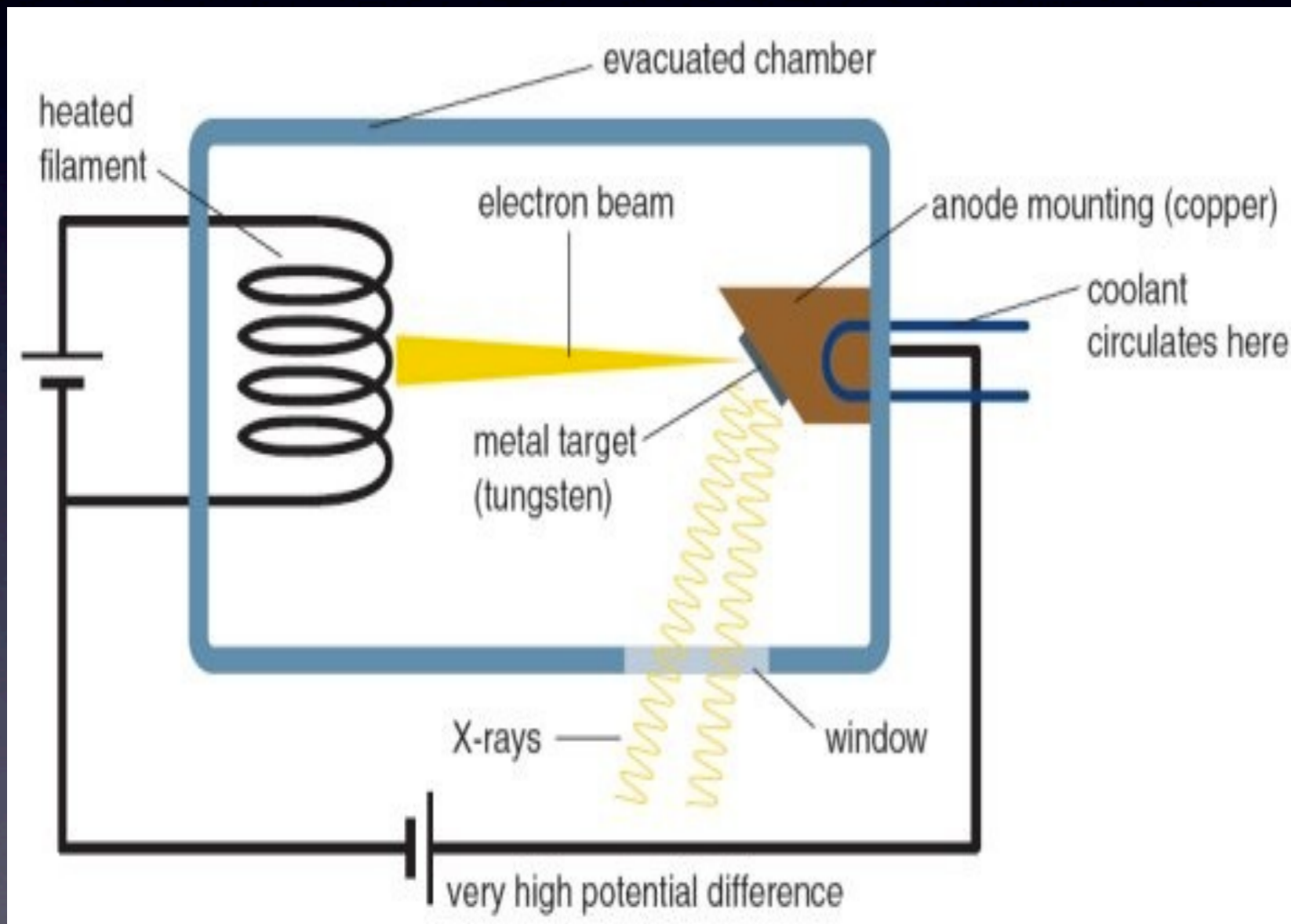


# X ray tube: working principle



Ask Mish



- Free  $-e$  accelerated w/ potential difference (ten to hundreds) between the two electrodes, cathode(-) and anode(+) **hit a metal** which is anode. What happens?
- 99% of the electrons E is **lost in heat**-> this means that metal should have a high melting point: Cu, Mo, graphite, tungsten etc
- 1% of lost E is producing **X ray** (see on the left)