

Cathode Ray Tube

&

J. J. Thomson

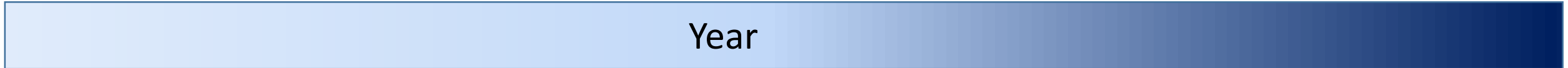
Democritus



Thomson



Late 1800s: J. J. Thomson (and others) experimenting with cathode ray tubes.



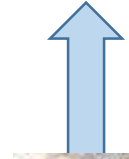
0

500

1000

1500

2000



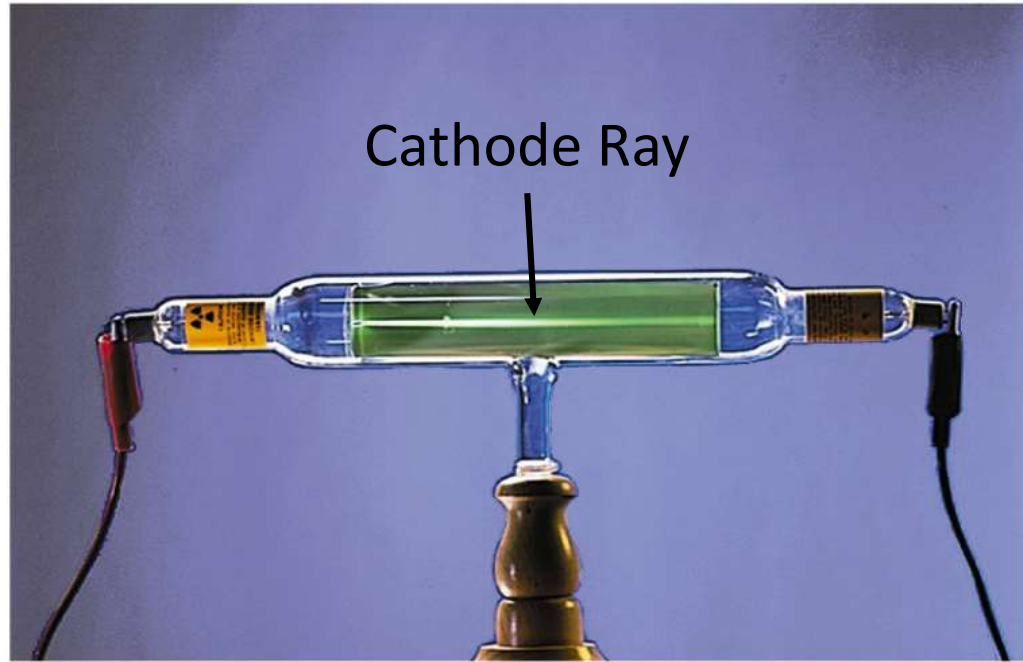
Aristotle



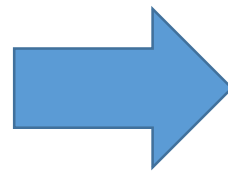
Dalton



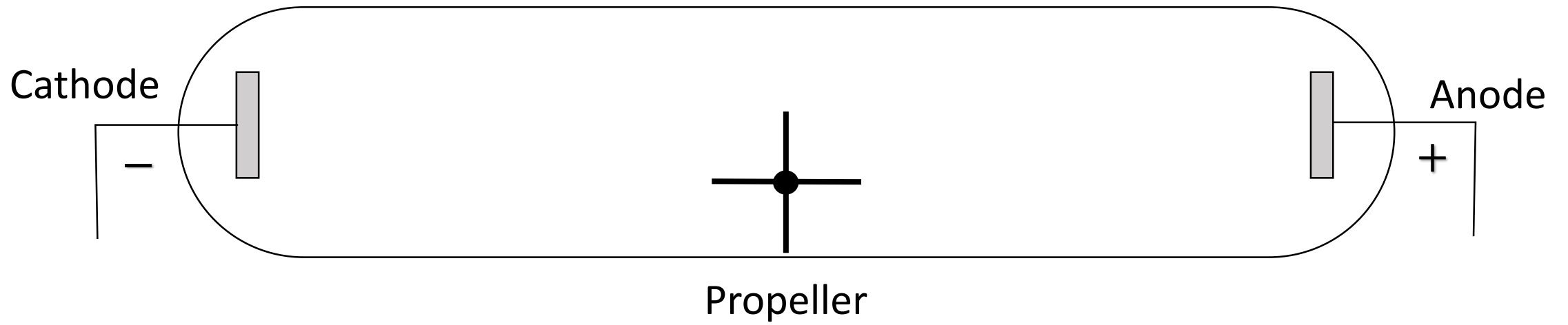


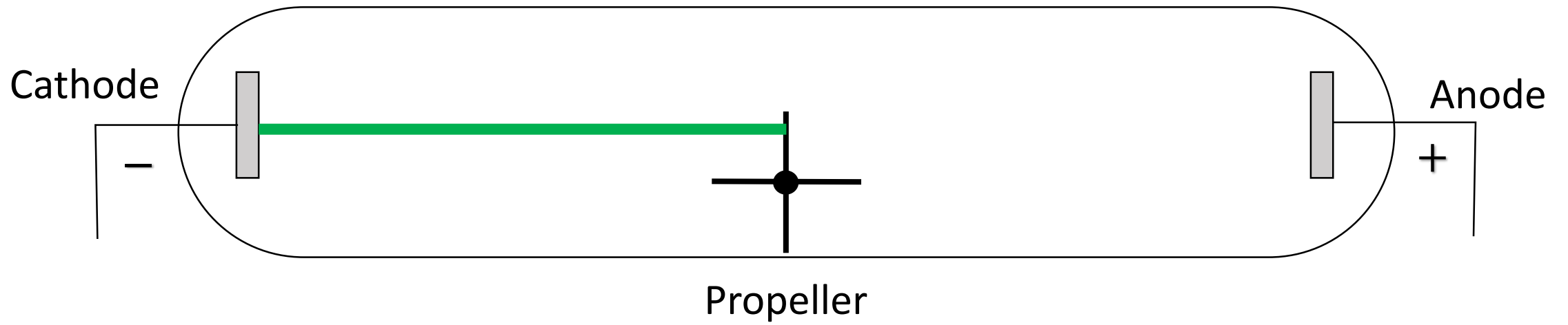


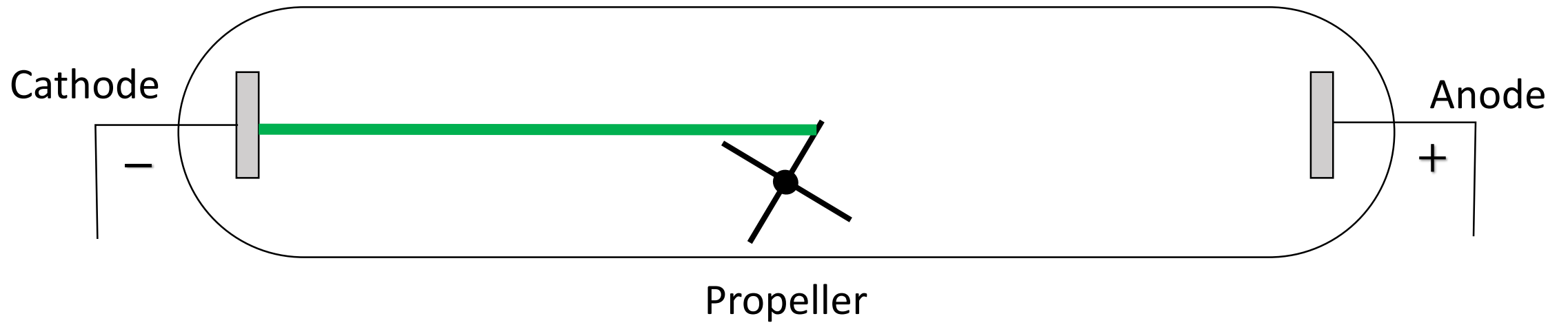
Cathode ray is deflected
in a magnetic field..

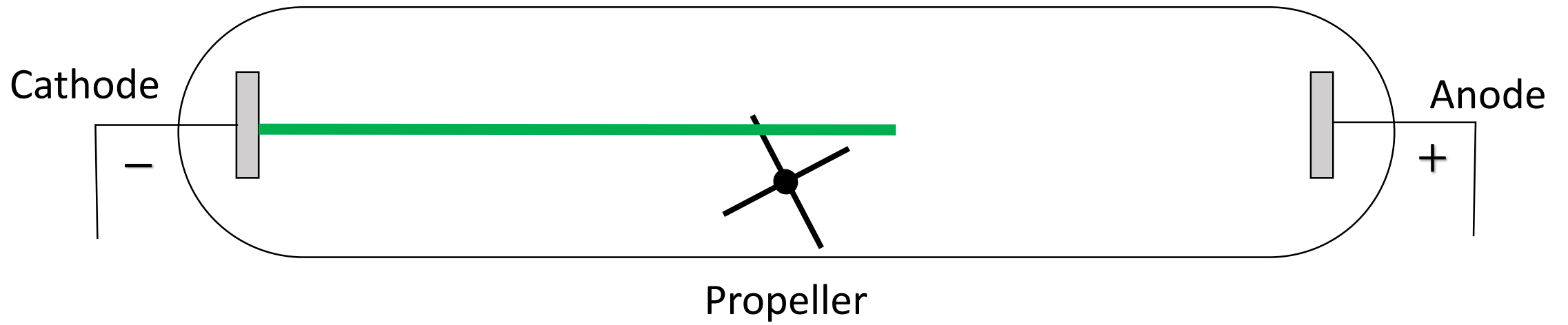


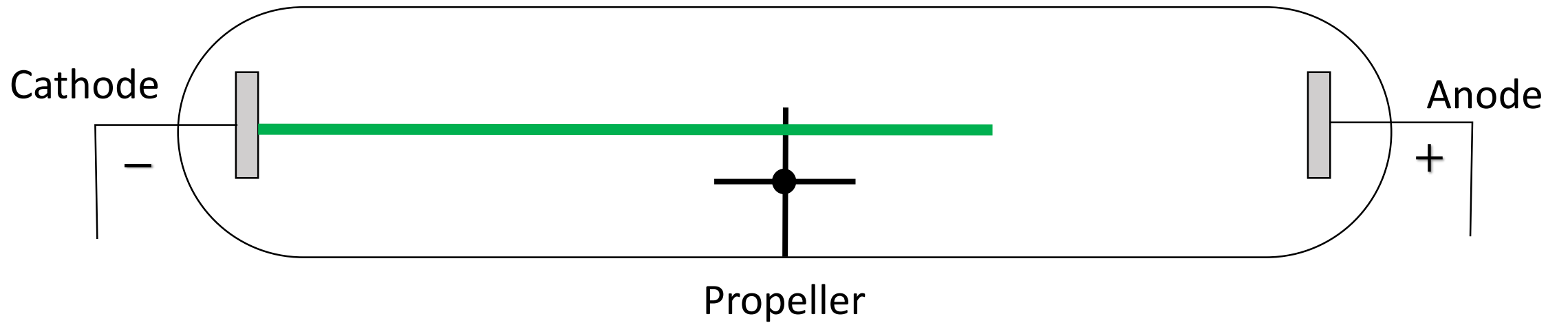
Cathode ray is not a
beam of light.

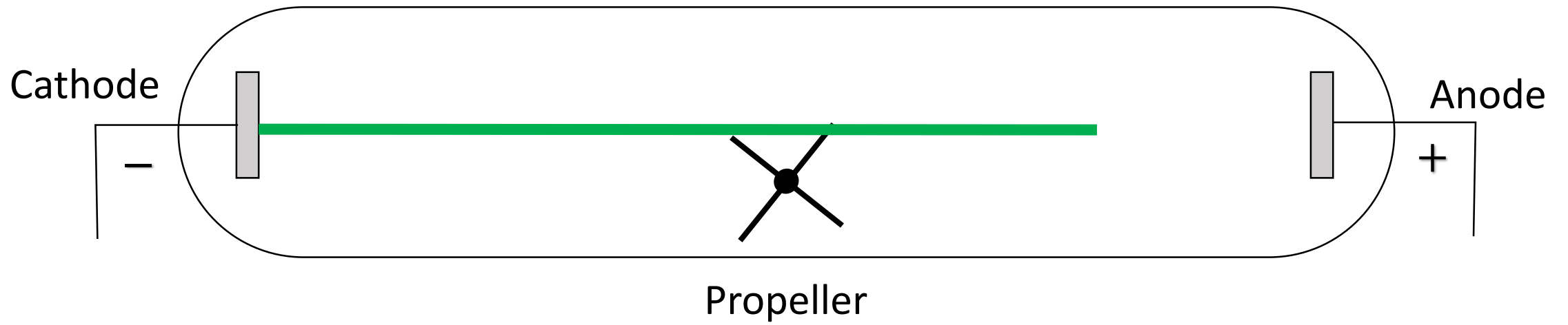


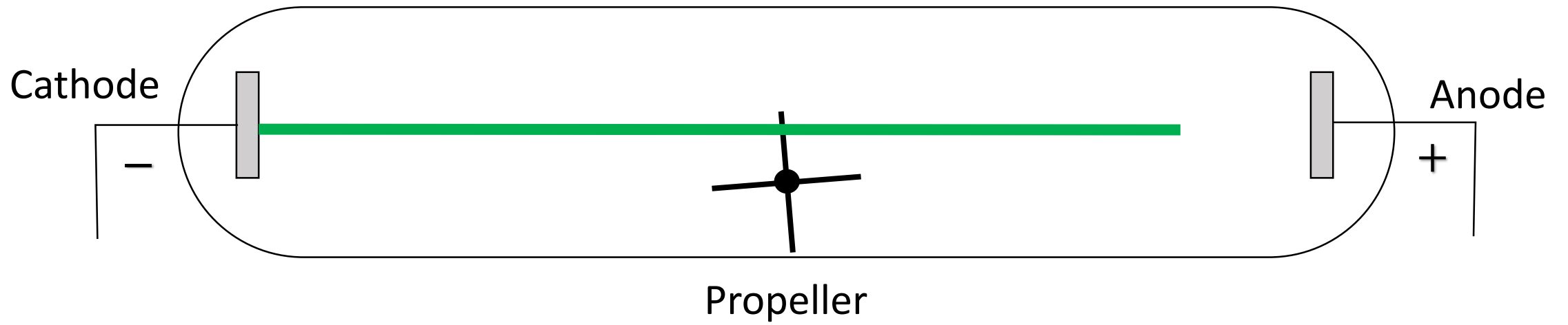


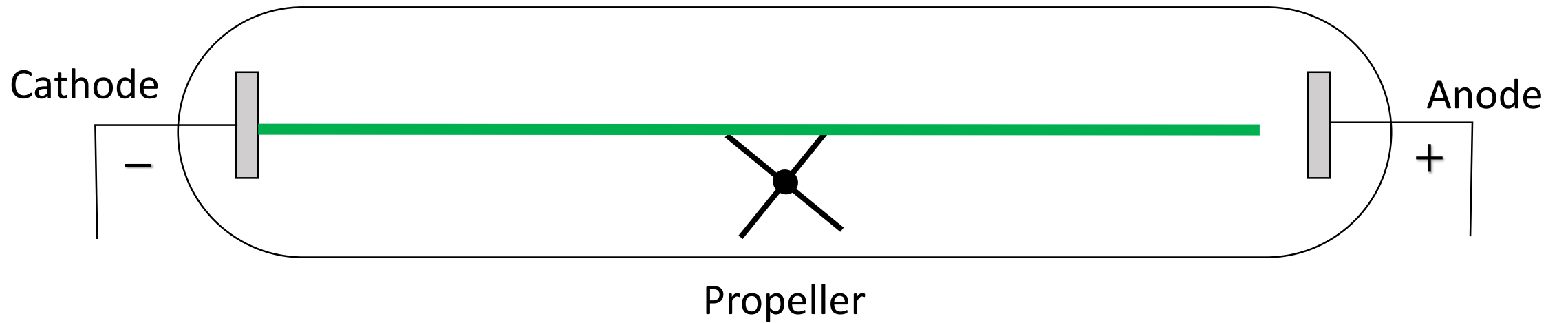


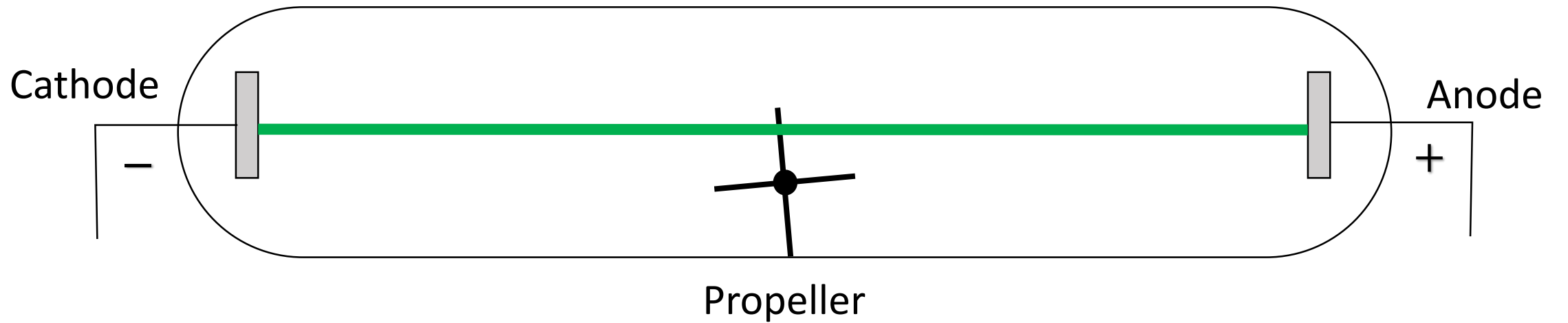


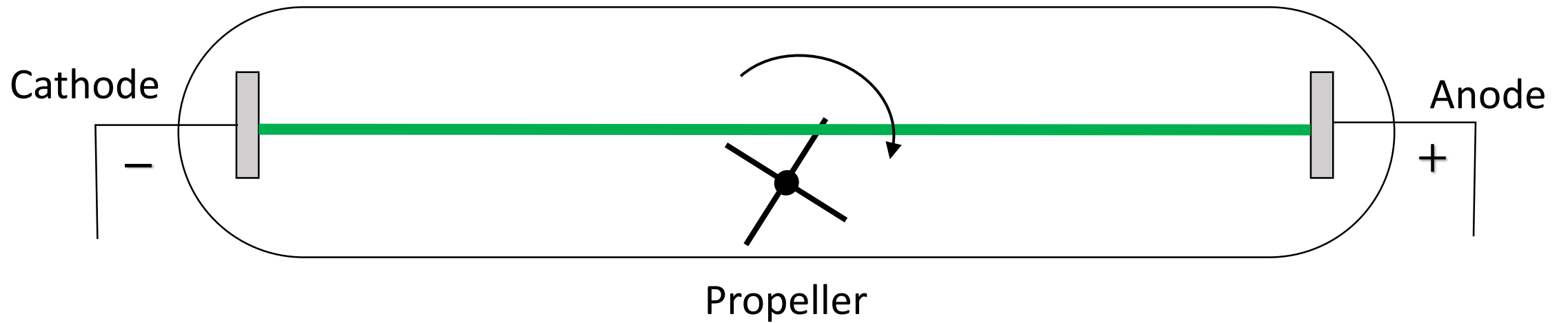




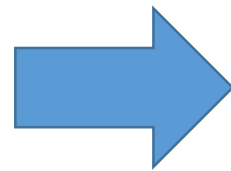




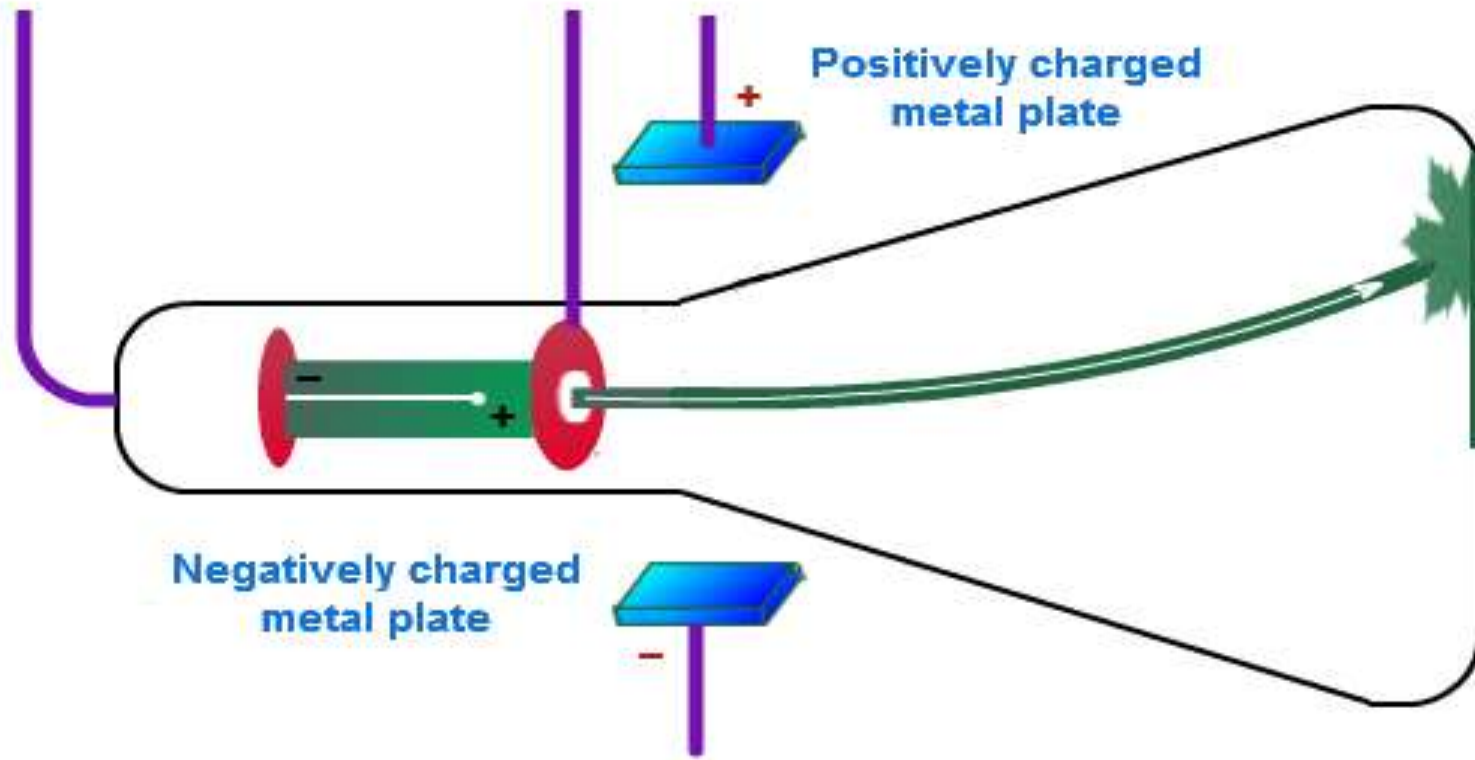




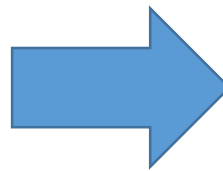
Cathode ray can
push a propeller.



Cathode ray has mass;
is made up of particles



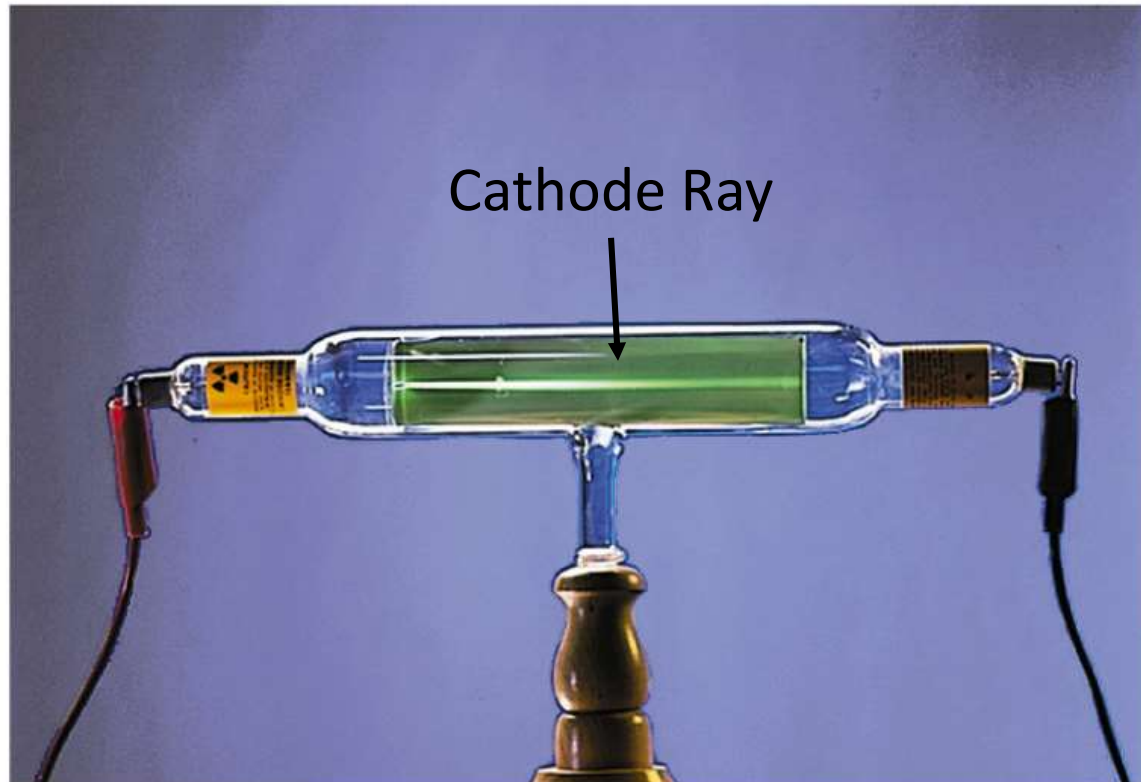
Cathode ray is attracted to a positive charge.



Cathode ray particles have a negative charge.



Thomson

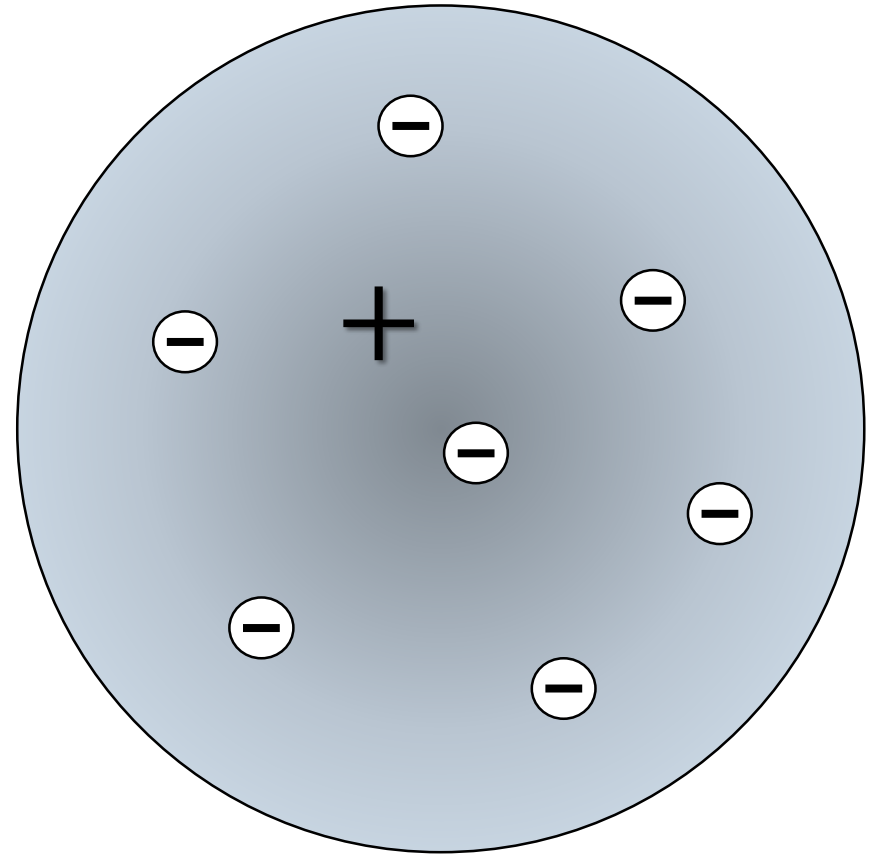


Cathode Ray

The cathode ray is made up of negatively charged electrons

Thomson's Atomic Model:

The atom is made up of a positively charged sphere embedded with negatively charged electrons



Thomson's Atomic Model:



Thomson's Atomic Model:



