

Simple SEM and TEM

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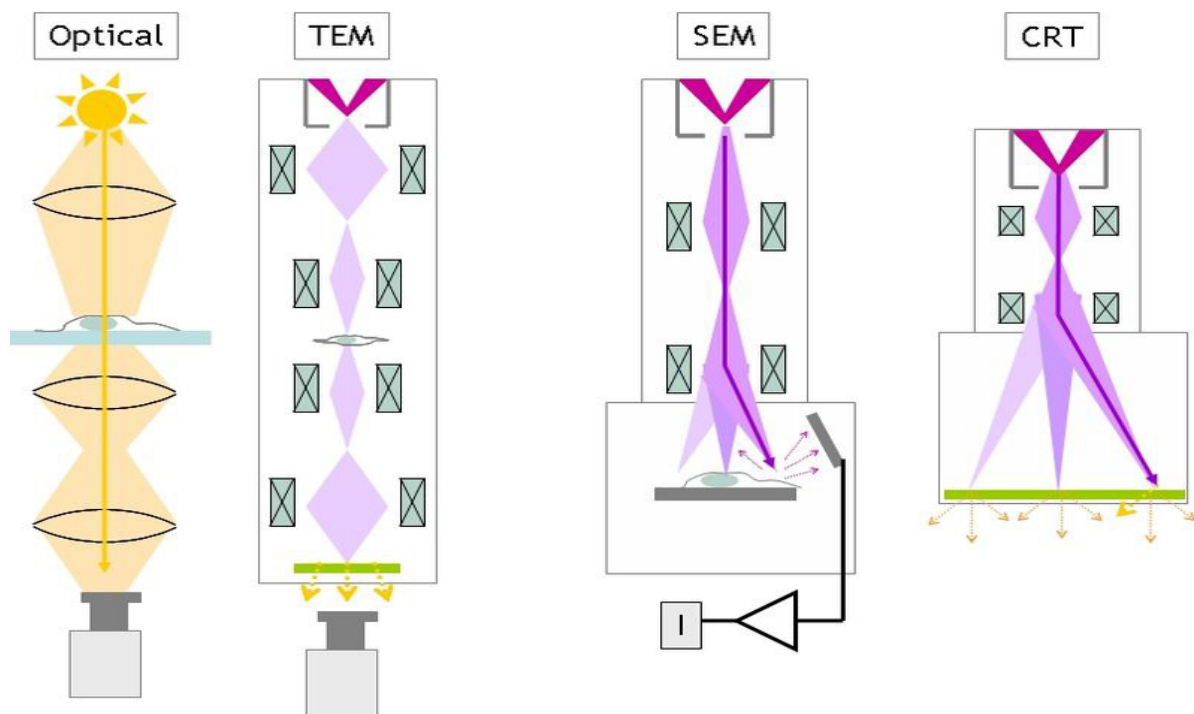


Figure 1: A simple sketch of a Transmission Electron Microscope (TEM) and Scanning Electron Microscope (SEM) compared to an optical transmission microscope and a cathode ray tube (CRT) TV screen-both systems have many things in common with the electron microscope. The optical microscope uses lenses to control the light's pathway through the system and is in many ways built up like a TEM-only the TEM uses electromagnetic lenses to direct the beam of electrons. The CRT uses electromagnetic lenses as the TEM and SEM to control the electron beam, and generates an image for the viewer by scanning the beam over a fluorescent screen - in the same way the SEM generates an image by scanning the electron beam over a small sample.

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