



Module: Introduction to Material Science
Focus: *Nanoscience*
Duration: 43 minute period



- Objectives:**
1. Students will be able to define the term “nanoscience.”
 2. Students will be able to discuss the history of microscopy.
 3. Students will be able to explain the limitations of optical microscopy.
 4. Students will develop a working understanding of the Atomic Force Microscope (AFM) and the Scanning Electron Microscope (SEM).
 5. Students will be able to compare and contrast the SEM, AFM and the optical microscope.
 6. Students will be able to correctly observe given samples using the SEM.

Materials: Computers with Internet access.

- Procedures:**
1. Review yesterday’s notes with the class.
 2. Students will take an interactive quiz on the SEM.

Assignment: 1. None.

Assessment: 1. Classroom Participation &, Quiz.

Contact:
Daniel Steinberg, PhD
Director of Education and Outreach
Princeton University Center for Complex Materials/PRISM
316 Bowen Hall,
70 Prospect Ave., Princeton University
Princeton, NJ 08540
609-258-5598
dsteinbe@princeton.edu



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Teacher Notes:

The interactive quiz can be found at the following address:

<http://www.quia.com/quiz/725280.html>

This quiz can also be printed out and administered.

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