

NAME _____
DATE _____ CLASS _____

QUESTIONS ABOUT MICROSCOPY

1. Define cell theory.
2. Robert Hooke used an early microscope and discovered what he called “cells.” What did he really see?
3. What are the three requirements of a light microscope?
4. If you want to see a cell component that is smaller than $0.2\ \mu\text{m}$, which microscope would you use and why?
5. If you want to observe the surface of a cell or tissue, which microscope would you use and why?
6. What are the major differences between a light and an electron microscope?
7. What is the average size of a cell?
8. Can you look at a live cell or do you always have to preserve it first?
9. Cells are basically transparent. You want to see a particular organelle. How are you going to visualize it?
10. What is the difference between magnification and resolution?
11. Do you think microscopes are still useful? Do you think they will become obsolete someday?