

Name _____ Class period _____

INTEGRATED SCIENCE B
NTI Day 2

Comparing Microscopes

Light microscope	Electron microscope
Uses visible light	Uses beam of electrons
Lower resolution and magnification	Higher resolution and magnification
Cells can be alive or dead	Cells must be dead
Inexpensive, relatively small	Expensive, very large

Not all microscopes are just magnifying glasses! Magnifying glasses do qualify as *simple microscopes* since they have only one lens. However, there are also more complex microscopes. Microscopes with multiple lenses are known as *compound microscopes*, and they are able to bend light to produce a much more magnified image than a simple magnifying glass.

Match each statement with A. Light Microscope or B. Electron microscope _ _ _

_____ Cells must be dead to use this microscope.

_____ Has the highest resolution

_____ Most expensive microscope

_____ Least expensive

_____ Lower magnification

_____ Uses beams of electrons

_____ Lower resolution

_____ Uses visible light

FILL IN THE BLANKS

1. Magnifying glasses qualify as _____

2. Microscopes with _____ are called compound microscopes.

3. TRUE OR FALSE Light microscopes can use living cells.

4. TRUE OR FALSE The most expensive microscope is the light microscope.