

Lesson Quiz B

Exploring Life

Completion

Directions: On each line, write the term that correctly completes each sentence.

- 1. A(n) _____ microscope uses light and one lens to enlarge an image of an object.
- 2. A(n) _____ microscope uses light, an ocular lens, and an objective lens to enlarge an image of an object.
- 3. A(n) _____ microscope uses a magnetic field to focus a beam of electrons on or through an object whose image is being magnified.

Short Answer

Directions: Answer each question or respond to each statement on the lines provided.

- 4. **Apply** What kind of microscope would you use to observe the movement of a live cell? Explain your answer.

- 5. **Apply** What kind of microscope would you use to study the details on the surface of a cell? Explain your answer.

- 6. **Describe** how a transmission electron microscope (TEM) works.

- 7. **Relate** How did the invention of the microscope lead to other scientific discoveries?

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