

Answer each of the following questions with complete sentences after completing activity 1.1.

1. As you zoom in from Earth to DNA, at what point on the measurement scale did you first need the help of an instrument, such as a microscope, to see the photographs?

2. Is the diameter of an iguana cell larger or smaller than the width of a DNA molecule? Explain your answer.

3. Which metric unit would be most useful for measuring each of the following objects?
 - a. An automobile

 - b. High school football field

 - c. The distance to another city

 - d. The nucleus of a cell

4. At what point of the measurement scale are the following levels of organization?
 - a. The organism level (a single iguana)

 - b. The cellular level (a single cell)

 - c. The biosphere level

 - d. The ecosystem level (where the iguana lives)

 - e. The tissue level (many cells of the same type working together)

 - f. The molecular level (individual molecules an organism is made of)