Chapter 1 The Science of Biology

Vocabulary Review

Completion *Fill in the blanks with terms from Chapter 1.*

1.	The process of gathering information about events or processes in a careful, orderly
	way is called
2.	A(An) is a logical interpretation based on prior knowledge or experience.
3.	A(An) is a proposed scientific explanation for a set of observations.
4.	In a(an) experiment, only one variable is changed at a time, while all other variables are kept unchanged.
5.	A(An) is a well-tested explanation that unifies a broad range of observations.
6.	In reproduction, the new organism has a single parent.
7.	A(An) is a signal to which an organism responds.
8.	The system is a decimal system of measurement whose units are based on certain physical standards and are scaled on multiples of 10.
M	atching <i>In the space provided, write the letter of the definition that best matches each term.</i> 9. biology 2. a collection of living matter enclosed by a barrier that

- 9. biology __ **10.** microscope ___ **11.** cell _____ **12.** cell fractionation __ **13.** homeostasis
- __ **14.** metabolism
- ____ **15.** cell culture

- **a.** a collection of living matter enclosed by a barrier that separates it from its environment
- **b.** combination of chemical reactions through which an organism builds up or breaks down materials
- **c.** a laboratory technique in which a group of cells develops from a single cell
- **d.** process of keeping an organism's internal conditions constant
- e. a device that produces magnified images of structures that are too small to see with the unaided eye
- f. a laboratory technique in which cells are separated into cell parts
- g. the science that seeks to understand the living world