Reinforcement - Scientific Processes

<table>
<thead>
<tr>
<th>experiment</th>
<th>manipulated evidence</th>
<th>responding</th>
<th>qualitative evidence</th>
<th>observing evidence</th>
<th>quantitative data</th>
<th>hypothesis</th>
<th>theory</th>
<th>natural evidence</th>
<th>inference</th>
</tr>
</thead>
</table>

1. Science is a body of knowledge that explains the ________________ world.
2. Gathering information with the senses: ________________________.
3. A logical interpretation based on observations: ____________________________
4. All claims in science should be supported by ____________________________.
5. Type of data that is measured with numbers; example: temperature of water: ________________
6. Type of data that is in the form of a description; example: color of the water: ________________
7. A proposed explanation that can be tested: ________________________________
8. A step-by-step procedure that is used to test a hypothesis: _______________________________
9. The thing that the scientist changes in an experiment: ________________________________ variable
10. What is measured or observed in an experiment: ________________________________ variable
11. In science, a ______________________ combines observations and explains WHY. (Ex. Evolution)
12. In science, a _______________________ is used to make predictions, telling us WHAT will happen.

Analyzing Data

The graph shows the number of shrimp hatched at different temperatures.

What is the manipulated variable? ________________________________
What is the responding variable? ________________________________

How would you summarize or caption this graph? In one sentence, connect the two variables.