The Finger Maze
A Review of Scientific Methods
Student Activity Worksheet

QUESTION:
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

HYPOTHESIS:
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

DATA:

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Maze Completion Time (in seconds)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Trial 1</td>
</tr>
<tr>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
</tr>
<tr>
<td>AVERAGE COMPLETION TIME (in seconds)</td>
<td></td>
</tr>
</tbody>
</table>

(over)
ANALYSIS:

1. Based on our experimental results, the repeated practice of a skill ________ perfect the performance of that skill. (circle one)

   DOES    
   
   DOES NOT

2. DESCRIBE, using specific data from the lab, how your experimental results support your response for Analysis Question 1.

   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
3. Our group’s hypothesis was (circle one)  

SUPPORTED  

REFUTED  

4. MATCH the term with the definition. Use CAPITAL LETTERS ONLY!  

____ analysis  
A. a thought, belief, or judgment not proven by observations  

____ conclusion  
B. a idea or model that has been rigorously tested and is supported by evidence  

____ data  
C. data that is numerical  

____ experiment  
D. precise scientific questions  

____ hypothesis  
E. series of organized steps that are used as a guide for answer questions or solving problems  

____ observation  
F. information collected during a scientific investigation; may be qualitative or quantitative  

____ opinion  
G. a review of information collected during a scientific investigation  

____ qualitative  
H. data that is descriptive  

____ quantitative  
I. AKA experiment; used to test the validity of a hypothesis  

____ scientific investigations  
J. information gathered using the senses  

____ scientific methods  
K. possible answer or tentative solution for a question  

____ testable  
L. AKA scientific investigation; used to test the validity of a hypothesis  

____ theory  
M. an interpretation based on research, experience, and data  

5. RANK, on a scale of 0 -10, your knowledge of scientific methods. _____________