Directions: Draw 2 arrows from each evidence box, one to each model. You will draw a total of 8 arrows.

Key:

- The evidence supports the model
- The evidence STRONGLY supports the model
- The evidence contradicts the model (shows its wrong)
- The evidence has nothing to do with the model

Evidence #1
Fracking fluids and wastewater injected into the ground change the stress in Earth’s crust.

Evidence #2
During recent years, the number of earthquakes near fracking sites was 11 times higher than the 30-year average.

Evidence #3
Convection of hot but solid and ductile rocks in the upper mantle creates stresses in Earth’s crust. These stresses cause Earth’s crust to fracture.

Evidence #4
Many earthquakes are currently occurring in regions surrounding fracking sites.
Please work on this part individually after you complete your diagram. Now that you have completed the diagram, reconsider the plausibility of Models A and B.

Circle the plausibility of each model. [Make two circles, one for each model.]

<table>
<thead>
<tr>
<th></th>
<th>Greatly implausible (or even impossible)</th>
<th>Highly plausible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model A</td>
<td>1  2  3  4  5  6  7  8  9  10</td>
<td></td>
</tr>
<tr>
<td>Model B</td>
<td>1  2  3  4  5  6  7  8  9  10</td>
<td></td>
</tr>
</tbody>
</table>

Did the plausibility of Model A and/or Model B change after you completed the diagram? Yes or No  [Circle One]
[Note: you may have to look at your previous ratings if you do not remember what they were. Ask your teacher for assistance.]

Which arrows changed your plausibility judgments about the models? If your plausibility judgment did not change, which arrows supported your original plausibility judgments? Use the following steps to provide two explanations for why your plausibility judgments did or did not change.

A. Write the number of the evidence you are writing about. [Note: it is okay to include more than one evidence.]
B. Circle the appropriate word (strongly supports | supports | contradicts | has nothing to do with).
C. Write which model you are writing about. [Note: it is okay to include both models.]
D. Then write your reason.

1. Evidence # _____ strongly supports | supports | contradicts | has nothing to do with Model _____ because:

2. Evidence # _____ strongly supports | supports | contradicts | has nothing to do with Model _____ because: