


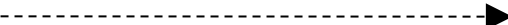


Name \_\_\_\_\_ Date \_\_\_\_\_ Teacher \_\_\_\_\_ Period \_\_\_\_\_

If you worked with other students, their name(s): \_\_\_\_\_

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

**Key:**

	The evidence <b>supports</b> the model
	The evidence <b>STRONGLY supports</b> the model
	The evidence <b>contradicts</b> the model (shows its wrong)
	The evidence has <b>nothing to do with</b> the model

**Evidence #1**  
Earth's average density is higher than the Moon's.

**Model A**  
The Moon was an object that came from elsewhere in the solar system and was captured by Earth's gravity.

**Evidence #3**  
The Moon's orbit around Earth is tilted compared to Earth's orbit around the Sun.

**Evidence #2**  
Simulations of other star systems show that planets form when smaller objects collide.

**Model B**  
The Moon formed after a large object collided with Earth and material from both combined to create the Moon.

**Evidence #4**  
The composition of Earth and the Moon is similar near their surfaces. Their cores are different.

Name \_\_\_\_\_ Date \_\_\_\_\_ Teacher \_\_\_\_\_ Period \_\_\_\_\_ Topic \_\_\_\_\_

**1. Compare and contrast two (or three) models.**

**2. 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 (and C, if there is one). Circle the plausibility of each model. [Make one circle for each model.]**

	Greatly implausible (or even impossible)									Highly plausible
<b>Model A</b>	1	2	3	4	5	6	7	8	9	10
<b>Model B</b>	1	2	3	4	5	6	7	8	9	10
<b>Model C</b> (if there is one)	1	2	3	4	5	6	7	8	9	10

**What were your previous ratings? Model A: \_\_\_\_\_ Model B: \_\_\_\_\_ Model C (if there is one): \_\_\_\_\_**

**3. For the model you selected as most plausible, explain why you think so.**

**4. Which arrows changed your plausibility judgments about the models? If your plausibility judgment did not change, which arrows supported your original plausibility judgments? Consider 2 lines of evidence. For each line, does it support, strongly support, or contradict one of the models? Why? When writing your explanation, consider the following:**

- Use the specific information from the evidence text and figures to support your response. Ex: when looking at graphs or figures, be sure to describe the patterns in the data
- Describe any cause and effect relationships found in the text.

**Evidence # \_\_\_\_\_ strongly supports | supports | contradicts | has nothing to do with Model \_\_\_\_\_ because:**

**Evidence # \_\_\_\_\_ strongly supports | supports | contradicts | has nothing to do with Model \_\_\_\_\_ because:**

**5. In your final ranking, did you rank either Model as “1” or “10?” Yes or No [Circle One] Why? Why not?**