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
Earth’s average density is higher than the Moon’s. The density of Earth’s crust is a little less than the Moon’s, but Earth’s density increases toward the core.

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 the planets’ orbits 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
Earth is about 35% iron, most of which is in the core. The Moon has very little iron.
Please work on this individually.

Provide a reason for three of the arrows you have drawn. Write your reasons for the three most interesting or important arrows.

A. Write the number of the evidence you are writing about.
B. Circle the appropriate word (strongly supports | supports | contradicts | has nothing to do with).
C. Write which model you are writing about.
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:

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

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

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