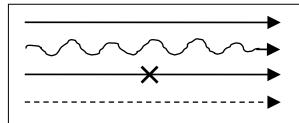
Name:	Date:	Teacher:	Period:

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 **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.

## Model A

The increase in moderate magnitude earthquakes in the Midwest is caused by fracking for fossil fuels.

# 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 #2

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

### Model B

The increase in moderate magnitude earthquakes in the Midwest is caused by normal tectonic plate motion.

## Evidence #4

Many earthquakes are currently occurring in regions surrounding fracking sites.

Name:			Date:		Teache	er:		Perio	od:	
	on this part individu Models A and B.	ually afte	er you comp	olete your	diagram. N	Now that y	ou have co	mpleted th	ie diagrar	n, reconsider the
Circle the plau	sibility of each mo	del. [Mal	ke two circl	es, one for	r each mod	el.]				
	Greatly implausible (or even impossible)									Highly plausible
Model A	1 1	2	3	4	5	6	7	8	9	10
Model B	1	2	3	4	5	6	7	8	9	10
Which arrows supported you judgments did  A. Write th B. Circle th C. Write w D. Then with the circle with the	s changed your plant or original plausibiled or did not change the number of the evidence appropriate word which model you are rite your reason.	usibility ility judgi lity judgi dence you (strongly writing al	judgments ments? Use a are writing y supports   bout. [Note:	about the the follows about. [No supports it is okay	models? If ving steps to lote: it is ok   contradic to include b	f your plau to provide ay to inclu ets   has no both model	two explande more that thing to do	lgment did nations for an one evid with).	l not chan why your ence.]	ge, which arrows
2. Evidence #	strongly supp	oorts   suj	pports   con	tradicts	has nothin	g to do wit	th Model _	becau	ıse:	