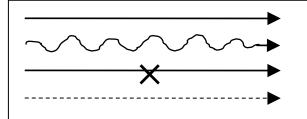
Name: Date: Teacher: Period:

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.