

Name:	Date:
Teacher:	Period:
Group members, if any:	

1. Before you build and complete your diagram, answer the following questions:

Why is it important to accurately evaluate connections between evidence and models? Check all the boxes that you think apply.

- ☐ Accurately evaluating connections helps me check if models are supported by strong, relevant evidence.
- ☐ Accurately evaluating connections helps me make sure that models align with popular opinions and trends.
- ☐ Accurately evaluating connections helps me make scientific judgments about model truthfulness.
- ☐ Accurately evaluating connections helps me identify gaps or inconsistencies in the evidence supporting the model.

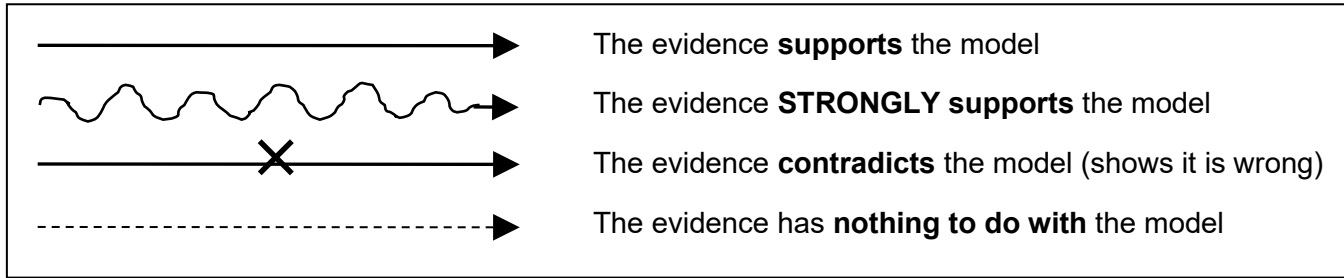
Explain why you selected your choices above. What was your reasoning for the selections you chose?

When instructed, flip over to Page 2.

2. Construct and complete your diagram

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

Key:



Evidence #1

Land use changes have generated large pressures on freshwater resources. These changes are affecting both water quality and availability.

Model A

Earth's freshwater challenges will be solved by engineering solutions.

Evidence #3

Water reclamation and desalination are expensive. The costs vary depending on location.

Evidence #2

The world's population is increasing. This stresses the supply of freshwater.

Model B

Earth has a shortage of freshwater, which will worsen as our world's population increases.

Evidence #4

Advances in engineering have led to better access to quality drinking water. At the same time, life expectancy and quality of life have improved.