

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

1. Please work on this individually:

Are fossils and past climate relevant? Is the topic of fossils and past climate important to you personally? Is the topic important to your community?

Please circle the choice below that best matches how you feel about the topic’s relevance.

Fossils and past climate are not important to me <i>and</i> are not important to my community	Fossils and past climate are not important to me, <i>but</i> are important to my community
Fossils and past climate are important to me, <i>but</i> are not important to my community	Fossils and past climate are important to me <i>and</i> are important to my community

When instructed, flip over to Page 2.

2. Please work on this individually and read the following information carefully.

Humans create **models** to help explain things.

Below are two models. These provide different ideas about whether and how fossils can be used to interpret Earth's past environments.

Model A: Many organisms' fossils are missing from the fossil record. We cannot make any conclusions about Earth's past environments from fossils.

A person who supports this model makes the following argument:

Some past organisms did not have hard shells or bones. Therefore, fossils cannot show all organisms that lived on Earth. Because they are incomplete, we should not use fossils to make conclusions about the past.

Model B: Fossils provide evidence for Earth's changing surface. Understanding past life forms tells us about past environments.

A person who supports this model makes the following argument:

Many fossils are buried beneath Earth's surface. By examining rock layers containing fossils and analyzing fossil structure, scientists better understand Earth's changing surface and environments.

Plausibility is a judgment we make about the potential truthfulness of one explanatory model compared to another. The judgment may be tentative (not certain). You do not have to be committed to that decision.

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

	Greatly implausible (or even impossible) Highly plausible									
	1	2	3	4	5	6	7	8	9	10
Model A										
Model B										