Plausibility of Models about the Use of Fossils in Interpreting Earth's Past Environments

Name	_Date	_Teacher	Period
Please work on this individually	and read the f	ollowing information ca	arefully.
Humans create <i>models</i> to help exp	lain 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 three circles, one for each model.]

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