**Claims-Evidence-Reasoning**

How do scientists know what the Earth’s interior is like?

Copy and paste this link:

<https://ees.as.uky.edu/sites/default/files/elearning/module06swf.swf>

Use the information from the Layers of the Earth interactive website (that we’ve been using) to identify the Claims, Evidence, and Reasoning behind the current scientific understanding of the Earth’s interior.

Claim: The uppermost 100 km portion of the Mantle is completely rigid, the portion of the mantle immediately beneath this upper piece is partially-melted and plastic, and the remainder (the Lower Mantle) is almost rigid (just slightly plastic).

Evidence:

Reasoning:

Claim: Seismic waves travel faster in the Mantle than in the Crust.

Evidence:

Reasoning:

Claim: The asthenosphere is slightly (1%) molten, and different from the rest of the Mantle.

Evidence:

Reasoning:

Claim: The core is primarily a mixture of iron (Fe) and nickel (Ni) metals, with a little sulfur (S) and other trace elements.

Evidence:

Reasoning:

Claim: The inner core is a crystalline solid, whereas the outer core is a liquid.

Evidence:

Reasoning: