

**Figure 9: Rubric for assessing students' certainty rationales.**

**Rubric for Certainty Rationale**

<b>LEVEL</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>DESCRIPTION</b>	No information. Students write "I don't know," or write an off task response or restated the claim.	Certainty related to personal skills and knowledge: Students did not understand the question, did not possess general knowledge or ability or did not make sense of the data	Certainty based on science provided by the curriculum: Students referred to or elaborated on scientific knowledge or data.	Certainty related to factors beyond what was provided by curriculum: Students recognize limitations of data, elaborate why scientific phenomena addressed are uncertain, or mention current state of scientific knowledge or data collection are limited.