



Name _____ Date _____ Class _____

Student Guide 5
Scoring Guide: Probing an Unknown World

Procedure

1. Collecting Data

- Use a Height Probe

Table with 3 columns (3, 2, 1) and 6 rows of criteria for Height Probe scoring.

- Use a Magnet Probe

Table with 3 columns (3, 2, 1) and 4 rows of criteria for Magnet Probe scoring.

- Use your probe

3	2	1
<input type="checkbox"/> Scan is clear – easy to read <input type="checkbox"/> Scan is accurate – corresponds with the world <input type="checkbox"/> Uses the colors established in the key <input type="checkbox"/> Clearly shows range of properties	<input type="checkbox"/> Scan is somewhat clear. <input type="checkbox"/> Scan is somewhat accurate. <input type="checkbox"/> Uses most of the colors established in the key <input type="checkbox"/> Shows range, but is difficult to read.	<input type="checkbox"/> Scan is unclear. <input type="checkbox"/> Scan is not accurate <input type="checkbox"/> Does not use colors established in key <input type="checkbox"/> Range is not clear.

If time: use other probes and record the data on the grid.

3	2	1
<input type="checkbox"/> Scan is clear – easy to read <input type="checkbox"/> Scan is accurate – corresponds with the world <input type="checkbox"/> Uses the colors established in the key <input type="checkbox"/> Clearly shows range of properties	<input type="checkbox"/> Scan is somewhat clear. <input type="checkbox"/> Scan is somewhat accurate. <input type="checkbox"/> Uses most of the colors established in the key <input type="checkbox"/> Shows range, but is difficult to read.	<input type="checkbox"/> Scan is unclear. <input type="checkbox"/> Scan is not accurate <input type="checkbox"/> Does not use colors established in key <input type="checkbox"/> Range is not clear.

5. Drawing Conclusions - Interpreting your data

3	2	1
<input type="checkbox"/> Well defined observations of the structure <input type="checkbox"/> Bases description of the structure by correctly citing data from all probes and identified inferred observations i.e. feeling if the box is heavy etc. <input type="checkbox"/> Writes in a scientific manner <input type="checkbox"/> May include some questions about the structure that show logical reasoning	<input type="checkbox"/> Bases description of the structure citing some data from some probes <input type="checkbox"/> Bases most of the description on observations other than height <input type="checkbox"/> May include questions about the structure <input type="checkbox"/> Writes in common language	<input type="checkbox"/> Uses very little data from the probes to describe structure <input type="checkbox"/> Bases the description on how the box felt <input type="checkbox"/> Description is difficult to understand.



6. Critique your Results

3	2	1
<ul style="list-style-type: none"><input type="checkbox"/> Identifies unanswered questions<input type="checkbox"/> Describes probes that could help identify the answers<input type="checkbox"/> Displays thorough thinking beyond what is expected.<input type="checkbox"/> Writes in a scientific manner	<ul style="list-style-type: none"><input type="checkbox"/> Identifies unanswered questions<input type="checkbox"/> Minimally describes probes that could help identify answers.<input type="checkbox"/> Writes in common language	<ul style="list-style-type: none"><input type="checkbox"/> Identifies few ideas or questions with limited understanding.