



Name _____ Date _____ Class _____

Student Guide 4 Creating a Probe for an Unknown Planet

Purpose

You will create a probe to characterize an unknown world. When you create your probe, keep in mind the restrictions of the observation box.

Procedure

Brainstorming Ideas for your Probe

1. What are the other kinds of probes you could create? In the chart below list the properties that you could observe about a world. The first two are completed for you.

Property	Probe Ideas
Height	Stick and Ruler
Magnetic	Drag a magnet along the top and bottom of the box

Making the Probe

2. What property will you test? _____

Draw a picture of the probe you are designing and list the materials you are using.

Probe Design	Materials

Teacher Check: Have your teacher check your design.

Teacher initials _____.



Probing the Unknown

Test the Probe

3.) Test your probe on the planet that you have created. Make any changes to your probe that is needed before trying it out on the unknown world.

Create a Scanning System

4. How will you scan your data? Do you need to list a **range** of properties to describe your data? Make a key below showing how to scan data. If you have a range of properties that are tested with your probe include the range in the key.

Examples:

- With the depth probe your range was measured cm and mm. The range of numbers was dependent on the height of the box.
- With magnets you shaded in the region with a magnetic force. There was no range.
- If testing texture, you may make a range from soft to very hard.

Write your key below:

