



Name _____ Date _____ Class _____

Student Guide 5 Probing an Unknown World

Purpose

Your goal is to characterize an unknown world using the probe that you have created, the height probe and the magnet probe. If time permits, you may use the probes created by other classmates.

Materials

- Height probe
- Magnet probe
- Your probe
- Your world
- Student Guide 5 or scan paper

Procedure

Collecting Data

Pair up with another group. Exchange worlds.

1. Probe and scan your unknown world. Do at least 3 different scans, but after you have completed the first three scans you may borrow probes from fellow scientists. Remember to keep all of your data so that you can make the best characterization of your planet.
 - Use a Height Probe– Scan data on the grid
 - Use a Magnet Probe – Scan data on the grid
 - Use your probe – Scan data on the grid
2. If time permits: use other probes and record the data on the grid.

Teacher Check: Have your work checked by your teacher.

Teacher's Initials _____



Probing the Unknown

Write the type of probe you used above each scan area
Probe _____

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2														
3														
4														
5														
6														
7														
8														
9														

Probe _____

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2														
3														
4														
5														
6														
7														
8														
9														



Probing the Unknown

Probe _____

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2														
3														
4														
5														
6														
7														
8														
9														

Probe _____

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2														
3														
4														
5														
6														
7														
8														
9														

Make sure you have all the scans clearly labeled with a key. Make sure all the properties are clearly labeled.



Extension questions for journalizing or discussion:

Why is it important for scientists to continue to develop new tools for observation?

What kind of tools do you think will be needed in the future? What do you think they will want to find?

If you were a scientist what would you be curious about observing?

What kind of tool would you need for it?

What have you learned from the Probe activities?