TASK #7

Student Worksheet – Help! I'm (still) Stuck

Group Name_____ Group Members_____

Overview: NASA are happy with your bumper, but are concerned that the physical impact with the chasm walls will dislodge rocks sitting above. Modify your robot to include the Ultrasonic Sensor and run the same program, but this time recognising the walls before you touch them.

Connect the Ultrasonic Sensor to your robot.

Use the 'View' menu on your robot to see what types of readings you get with the Distance Sensor

View → Ultrasonic (cm OR inch) → Port 4

There are several progressive steps we would like to make in order to solve this problem. Each program should be done individually and demonstrated to a teacher before moving on.

We would like our robot to drive forward until it encounters an obstacle.

- Drive until object is detected, then stop.
- Shout 'hello!' when you are close to an object
- Turn around when you are close to the object.
- Repeat this action until you find your way out of the chasm

What was the most difficult part of this challenge? _____

How did you go about solving it? _____