Student Worksheet – Help! I'm Stuck TASK #6

Group Name_____ Group Members_____

Overview: Whilst on NXTpoia, your robot will undoubtedly come up against some terrains that are too difficult for the robot to navigate. NASA is worried about a particular chasm near the drop zone where the robot could conceivably get trapped. They have asked that you demonstrate your robots ability to detect such an obstacle and navigate out of the chasm.

Build a bumper to be attached to the front of your robot.

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 'ouch!' when you hit an object
- Turn around when you hit 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? _____