**Rescue Robot Rubric**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Extra Credit | A | B | C | F |
| Victims | Found victims are counted and count is displayed | All victims correctly identified | Most victims correctly identified | Some victims correctly identified | No victims correctly identified |
| Gaps |  | All gaps navigated correctly | Most gaps navigated correctly | Some gaps navigated correctly | No gaps navigated correctly |
| Debris |  | Robot avoided all debris | Robot avoided most debris | Robot avoided some debris | Robot unable to avoid debris |
| Rooms |  | Robot entered all rooms through one door and exited through the other | Robot entered most rooms through one door and exited through the other | Robot entered one room and was unable to exit | Robot did not enter the first room |
| Constructions | Robot constructed using advanced gearing or other advanced construction techniques. Robot demonstrates extraordinary creativity. | Robot is of sound construction: nothing falls off, robot works as intended. | Parts of robot fall off.  Very simple construction – mechanics not used well. | Robot does not work as intended, but does move. Robot falls apart. Robot is unable to navigate due to construction | Robot falls apart or does not move at all. Construction appears careless or haphazard. |
| Programming | Program uses advanced techniques including blocks from the complete palette, flow blocks, etc. | Program is straightforward and efficient, using loops and parallel sequences as necessary. Program uses sensors and strong logic to navigate challenges and find victims. | Program is straightforward and easy to understand. Program uses inefficient logic to navigate challenges and find victims. | Program is poorly written or difficult to understand. Program has unused parts or does not correctly control robot. Program does not correctly use sensors to control motion. | Program does not work. |
| Cooperating | Student(s) helped other groups. Managed own role & helped group members. | Student worked well with group. Student participated actively in all parts of project. | Student worked somewhat well with group. Student participated in most parts of project. | Student had trouble working with group. Student participated in few parts of project. | Student did not participate in project. Student sabotaged others’ work. Made it difficult for group to work. |