

The Update of 2020 World GreenMech Contest Regulations

Chapter	Contents (update as red)	Page	Remark
5.2.	GreenMech Junior Contest Award-Number of Awards	P9-P10	Modify
7.4.1	Scientific Principle Applications (ii) Each device must prove 2 scientific concepts. Scientific concepts <u>(1 action counts as a scientific concept)</u> should not be duplicated between devices. A total of 14 scientific concepts, each earning contestants 1 point each can yield a maximum of 14 points.	P17	Add
7.4.1	Green Energy Source Applications: <u>(iv) There is only one opportunity to complete the task.</u>	P18	Add
7.4.1	Creativity: (ii) Two creative devices must be included between devices 1 – 7, the third creative device <u>must will be graded for the drying device in specified device area B and the whole of Specified device.</u>	P20	Modify
7.4.4.2.	Zone A: (i) In zone A, use one JUMBO BASE GRID (8 x 12cm) (ii) Use Gigo blocks <u>(880-W10-N1G)</u> as “production materials” in two colors (6 in total),	P25	Add
7.4.4.2.	Between Zones A & B: (i) Use blocks to make a conveyor belt <u>device</u> which can individual sequentially transfer production materials to the Static Removal Platform in zone B. (iii) Teams must create a counting device <u>device</u> near the conveyor belt <u>device</u> that can count materials and display the number of materials used, in sequence from 1 – 6.	P25	Modify
7.4.4.2.	Zone B (i) Within the zone B, use one 8x12cm JUMBO BASE GRID and two 5x15- <u>5</u> ARCH FRAMES	P26	Modify
7.4.4.2.	Between B, C Zone (i) Use Gigo blocks to make an automatic material feeder that can transport materials from the static removal platform to the material dispenser by clamping, suction or lifting. This hoisting mechanism includes two dimensions of up and down operation and left and right displacement. <u>(from low platform to high platform)</u> . Teams may use rubber bands to increase the grip of the device.	P26	Modify
7.4.4.2.	Zone C: (i) Within zone C, use one 8x12cm JUMBO BASE GRID	P26	Modify
7.4.4.2.	Rule violations <u>(For Specified device ONLY):</u> (i) All devices must be assembled using Gigo blocks (including Gigo motors or Gigo servo motors). Do not use materials other than blocks. <u>In other words, only Specified device can be in the orthographic projection area above it.</u> (v) <u>It's allowed to use circuit control in Specified device.</u> The program control section can use various types of control board, such as Arduino or micro: bit, but it must be assembled and secured using blocks, not fixed with glue. (v) Specified device allows to use circuit control. The program control section can use various types of control board, (x) <u>Operation time of Specified device: within 3 minutes (elementary school), 4 minutes(junior high school),5 minutes(senior high school)</u>	P27-P28	Add
7.4.4.4.	Specified Device Relative Positions: The specified task area (180 <u>60</u> cm x 60cm) can be raised up and does not need to be on the table surface, but the Process 1 to 11 must lie in the same plane	P32	Modify
8.4.2	Task Two: Note 8: When robot C enters the black line of the unmanned vehicle charging station, <u>robot C must drive itself using self-tracking to enter the area and score only if robot C completely stops in the area without touching the black line.</u> If robot A or B pushes the C robot into the black line of the charging station, no score is obtained.	P52	Modify
8.4.2	Task Three: Note 1: Robot A and B must use the Gigo control box. See Appendix 10. 1. for more information. Regional and country competitions are not limited in this way.	P52	Delete
10. 1.	List of Race Contest Motor Models	P70-72	Modify