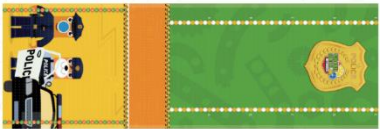
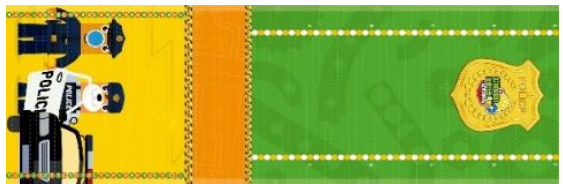


2024 WGM Correction of Regulation 2024 WGM Regulation

Updated Date	Page	Contest	Character	Original Script	Correct Script				
11/7/2023	11	GM Basic	7.3.4.1. Smoothness	<p>The Smoothness is scored by the operation from the first device to the fifth device. The first scoring item for each team is Smoothness and the number of devices. 5 minutes is granted for fine-tuning before scoring begins. Contestants must sign to acknowledge their score after it has been given</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 2px;">Smoothness 20%</td> <td style="padding: 2px;">The Smoothness is scored by the operation from the first device to the fifth device. The first scoring item for each team is Smoothness and the number of devices. 5 minutes is granted for fine-tuning before scoring begins. Contestants must sign to acknowledge their score after it has been given.</td> </tr> <tr> <td style="padding: 2px;">Total Number of Devices 10%</td> <td style="padding: 2px;"></td> </tr> </table>	Smoothness 20%	The Smoothness is scored by the operation from the first device to the fifth device. The first scoring item for each team is Smoothness and the number of devices. 5 minutes is granted for fine-tuning before scoring begins. Contestants must sign to acknowledge their score after it has been given.	Total Number of Devices 10%		<p>The Smoothness is scored by the operation from the first device to the fifth device. The Smoothness score operates from the first device to the fifth device. 5 minutes is granted for fine-tuning before scoring begins. Contestants must sign to acknowledge their score after it has been given.</p>
	Smoothness 20%	The Smoothness is scored by the operation from the first device to the fifth device. The first scoring item for each team is Smoothness and the number of devices. 5 minutes is granted for fine-tuning before scoring begins. Contestants must sign to acknowledge their score after it has been given.							
	Total Number of Devices 10%								
	11	GM Basic	7.3.4.1 Designated Device and Mission	<p>The scores for the all three launches can only be triggered by the last action in the previous device. If the launches are triggered automatically, the landing score is recorded</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 2px;">Designated Device and Mission 30%</td> <td style="padding: 2px;">The scores for the all three launches can only be triggered by the last action in the previous device. If the launches are triggered automatically, the landing score is recorded.</td> </tr> </table>	Designated Device and Mission 30%	The scores for the all three launches can only be triggered by the last action in the previous device. If the launches are triggered automatically, the landing score is recorded.	<p>After the Smoothness score has been awarded and the first launch is triggered, the landing score can be recorded for <u>Designated Device and Mission</u>. The scores for the second and third launches can only be triggered by the last action in the previous device. If the second and third launches are triggered automatically, the landing score is recorded.</p>		
Designated Device and Mission 30%	The scores for the all three launches can only be triggered by the last action in the previous device. If the launches are triggered automatically, the landing score is recorded.								
14	GM Advanced	7.4.4.2 Green Energy	<p>1. There are 5 minutes of preparation time is allowed before scoring begins. After scoring, the contestants need to sign for confirmation.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">1. There are 5 minutes of preparation time is allowed before scoring begins. After scoring, the contestants need to sign for confirmation.</td> </tr> </table>	1. There are 5 minutes of preparation time is allowed before scoring begins. After scoring, the contestants need to sign for confirmation.	<p>There are total 5 minutes of preparation time for Green Energy and Scientific Concept is allowed before scoring begins. After scoring, the contestants need to sign for confirmation.</p>				
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14	GM Advanced	7.4.4.2 Scientific Concept (16 points)	<p>Scoring are applied according to the Scientific Concepts demonstrated. Scores are applied based on the Scientific Principles Reference Table. There are 2 minutes of preparation time is allowed before scoring begins. After scoring, the contestants need to sign for confirmation.</p>	<p>Scoring are applied according to the Scientific Concepts demonstrated. Scores are applied based on the Scientific Principles Reference Table. There are total 25 minutes of preparation time for Green Energy and Scientific Concept is allowed before scoring begins. After scoring, the contestants need to sign for</p>					

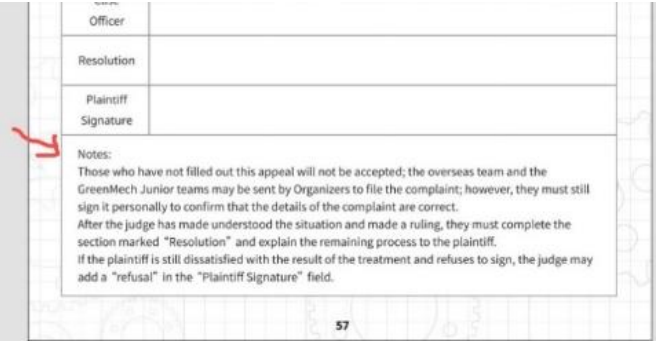
				<p>Scientific Concept 16%</p> <p>Scoring are applied according to the Scientific Concepts demonstrated. Scores are applied based on the Scientific Principles Reference Table. There are 2 minutes of preparation time allowed before scoring begins. After scoring, the contestants need to sign for confirmation.</p>	confirmation.									
	27	R4M Basic	Task Two	<p>F. Robot C delivers five pieces of 20-foot B-Type Container to the Goal Area and Robot C autonomously goes to the designated goal</p> <p>F Robot C delivers five pieces of 20-foot B-Type Container to the Goal Area and Robot C autonomously goes to the designated goal area, and is fully within the yellow frame.</p>	F. Robot C delivers five pieces of 20-foot B-Type Container to the Goal Area and Robot C autonomously goes to the designated goal area, and is fully within the lines inside the black frame.									
	48	GMJr. Science	Competition One	<p>(4) The scores for this competition are as follows (see Figure 4). The leftmost area earns 80 points, and each square in sequence decreases by 2 points to the farthest right, which scores 42 points.</p> <p>Figure 5. Team preparation</p> <p>(4) The scores for this competition are as follows (see Figure 4). The leftmost area earns 80 points, and each square in sequence decreases by 2 points to the farthest right, which scores 42 points.</p> <table border="1"> <tr> <td>80 Points</td> <td>78 Points</td> <td>76 Points</td> <td>74 Points</td> <td>72 Points</td> <td>70 Points</td> <td>68 Points</td> <td>66 Points</td> <td>.....</td> </tr> </table>	80 Points	78 Points	76 Points	74 Points	72 Points	70 Points	68 Points	66 Points	(4) The scores for this competition are as follows (see Figure 4). The leftmost area earns 80 points, and each square in sequence decreases by 2 points to the farthest right, which scores 24 points
80 Points	78 Points	76 Points	74 Points	72 Points	70 Points	68 Points	66 Points						
1/2/2024	9	GM Basic	7.3.3.	<p>A Launcher: On the day of the competition, teams are required to make their own automatic launcher that will automatically release 4-centimeter balls into a designated target area via mechanical triggers.</p> <p>Content of the Last Device - A Launcher</p> <p>1. On the day of the competition, teams are required to make their own automatic launcher that will automatically release 4-centimeter balls into a designated target area via mechanical triggers.</p>	A Launcher: On the day of the competition, teams are required to make their own automatic launcher that will automatically release 4-centimeter balls (Gigo A-40mm BALL-2945C BLUE :7330-W11-M1B) into a designated target area via mechanical triggers.									
	38	R4M Advanced	Task 2.2.	<p>Note 2: The software used by Robot C is WebAI x Gigo, and the main control box is C-Gigo AI CONTROL BOX (1206-W85-A). Please refer to Appendix for exact specifications</p> <p>Note 2: The software used by Robot C is WebAI x Gigo, and the main control box is C-Gigo AI CONTROL BOX (1206-W85-A). Please refer to Appendix for exact specifications.</p>	Note 2: The software used by Robot C is WebAI x Gigo, or micro:bit and the main control box is C-Gigo AI CONTROL BOX (1206-W85-A) or C-micro:bit Control Box (1269-W85-A1). Please refer to Appendix for exact specifications									

	49	GM Jr. Science	9.4.2.2.	<p>Figure 7. Description of the site for competition two: The official site map does not include the white line indicated by the arrow below (as</p>  <p>Figure 2. Contest Site</p> <p>shown in the right diagram). The starting point for both competitions is at the intersection of the caution line indicated by the arrow and the boundary line of the orange area.</p>	<p>Figure 7. Description of the site for competition two (below is updated one)</p> 														
1/29/2024	9,10	GM Basic	7.3.3 7.3.4 7.3.4.1	<p>Pneumatic Hydraulic Device</p> <table border="1"> <thead> <tr> <th colspan="2">Contents of Devices</th> </tr> </thead> <tbody> <tr> <td>Pneumatic hydraulic device</td> <td>Teams should design their devices according to the contest requirements. For example, if a team designs a ratchet, it must clearly demonstrate ratchet properties, and function correctly and smoothly.</td> </tr> <tr> <td>Pneumatic Hydraulic Device</td> <td></td> </tr> <tr> <td>10%</td> <td></td> </tr> <tr> <td>Pulley 10%</td> <td>1. Uniqueness (4%) 2. Sophistication (4%)</td> </tr> <tr> <td>Ratchet 10%</td> <td>3. Demonstrate the corresponding scientific principles in each device (2%)</td> </tr> <tr> <td>Lever 10%</td> <td></td> </tr> </tbody> </table> <p>7.3.3. Contents of Device</p> <p>The first device is designated as a pneumatic hydraulic device. Teams should make a pneumatic and hydraulic powered device using Gigo building blocks. The last device is the designated self-made launcher. The remaining three devices are the pulley, ratchet, and lever. The order of these three devices can be decided by teams.</p>	Contents of Devices		Pneumatic hydraulic device	Teams should design their devices according to the contest requirements. For example, if a team designs a ratchet, it must clearly demonstrate ratchet properties, and function correctly and smoothly.	Pneumatic Hydraulic Device		10%		Pulley 10%	1. Uniqueness (4%) 2. Sophistication (4%)	Ratchet 10%	3. Demonstrate the corresponding scientific principles in each device (2%)	Lever 10%		Pneumatic Hydraulic Device
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The robots, plus any additional parts are weighed. <ol style="list-style-type: none"> Basic: (Three robots: A, B, and C, or one spare car) Participating robots (including any additional components) need to be verified by judges and will be retained until the contest time. 5-Points may be deducted for messy or untidy work areas. For robot size regulations please obey the regulations of R4M Basic and R4M Advanced. 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	37	R4M Advanced	Task One	<p>Task One : Robot A earns 10 points when the whole robot body has left the Rocket Ship Area A. Robot B earns extra 10 points when it successfully completes one task. Robot C earns 10 points when the whole robot body has left the Rocket Ship Area C. Teams earn 20 points if the automation platform D successfully completes at least one task and is operated by remote control. Teams earn 40 points if the automation platform D successfully completes at least one task and is fully automated by programming or performs AI identification.</p>	identification																														
1/29/2024	45	GMJr. Science	9.2	<table border="1"> <thead> <tr> <th colspan="3">2024 GreenMech Junior- Jr. Science Schedule</th> </tr> <tr> <th>Time</th> <th>Item</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>7 : 30-8 : 15 (Aligned with the overall event planning)</td> <td>Registration and Materials Inspection</td> <td> <ol style="list-style-type: none"> Contestants should refer to the team location map on the official website before the contest begins, so they can go directly to their team table and report on the day of the contest. Contestants should check the provided materials against the list they are given. If there is any part missing, the staff must be informed before the contest begins. Once the production time begins, materials cannot be replenished or replaced. Contestants need to present their Certificate of Student Enrollment at this time, please see 11.1 in the full rule book for more information. 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1/29/2024	50	GMJr. Programmer	10.2	2024 GreenMech Junior- Jr. Programmer Schedule		
				Time	Item	Remarks
				07:30-08:15 (Aligned with the overall event planning)	Registration and materials inspection	Teams may bring up to 3 Base Units, but all device memories must be erased during inspection. No code cards or map cards should be pre-assembled. No block components should be pre-assembled.
				08:15-08:40 (25 mins)	Rules Reminder	
				08:40-09:10 (30 mins)	Opening Ceremony	
				09:10-12:00 (350 mins)	Official Competition Time (Lot Drawing) (Including Practice Time)	<ol style="list-style-type: none"> 1. 20 minutes before the official competition, teams draw lots to determine their goals for Task 3 and Task 4. Then, there is 20 minutes for teams to practice and prepare on their own in the team preparation area. 2. After the 20-minute practice period, teams must disassemble the map cards into pieces, and then take them to the competition area and reassemble them during the competition time. 3. Teams have 6 minutes to complete their contest. Contestants can place and assemble the map cards and code cards, and the robots can score points. There is no time allowed for stopping during the 6-minute contest.
				11:40-12:30 (50 mins)	Grading Time	After competition, all teams will have lunch.
				13:30~ (Aligned with the overall event planning)	Awards Ceremony	Awards will be given after the results are settled.

1/29/2024	57	Complaint Form	11.2		<p>Add below to notes:</p> <p>1.Teams must be able to speak politely to judges and organizers. Upon receiving a warning, a second warning will result in a penalty, and a third warning will lead to disqualification.</p> <p>2.If there are concerns regarding the competition results, please raise them within one hour after the competition results are announced.</p>			
2/1/2024	15	GM advanced	7.4.4.3.	<table border="1"> <tr> <td data-bbox="875 719 1003 938">2 Green Energy Source Applications</td> <td data-bbox="1003 719 1099 938">24%</td> <td data-bbox="1099 719 1541 938"> <p>(1) There are five kinds of green energy sources: wind, hydro, solar, magnetic and chemical. Teams earn 3 points for compliance with green energy specifications. Each green energy-driven device that successfully activate the next device will earn 5 points at the first operation.</p> <p>(2) Green energy devices cannot be used in the first nor the last device. These three green energy applications may not be repeated. The highest score available from this part is 24 points.</p> <p>(3) If a team uses green energy sources for the first or the last device they will not be awarded any green energy score.</p> <p>(4) For more information on green energy use, refer to section 7.6</p> </td> </tr> </table>	2 Green Energy Source Applications	24%	<p>(1) There are five kinds of green energy sources: wind, hydro, solar, magnetic and chemical. Teams earn 3 points for compliance with green energy specifications. Each green energy-driven device that successfully activate the next device will earn 5 points at the first operation.</p> <p>(2) Green energy devices cannot be used in the first nor the last device. These three green energy applications may not be repeated. The highest score available from this part is 24 points.</p> <p>(3) If a team uses green energy sources for the first or the last device they will not be awarded any green energy score.</p> <p>(4) For more information on green energy use, refer to section 7.6</p>	<p>There are five kinds of green energy sources: wind, hydro, solar, magnetic and chemical. Teams earn 3 points for compliance with green energy specifications. Each green energy-driven device that successfully activate the first action of next device will earn 5 points at the first operation</p>
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39	R4M Advanced	Task 5.2.	<p>(Task 5.2.) Use the automated platform to deliver the big meteorites from the Meteorite Disinfection Area to the two Meteorite Temporary Spots. If the big meteorite is the same color with the area, each big meteorite gets 50 points, and two big meteorites with the correct color get 100 points. If the big meteorite is the different color with the area, each big meteorite only gets 20 points.</p>	<p>(Task 5.2.) Use Robot A and B, or the automated platform to deliver the big meteorites from the Meteorite Disinfection Area to the two Meteorite Temporary Spots. If the big meteorite is the same color with the area, each big meteorite gets 50 points,</p>				

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