

Team #: 4 Referee: \_\_\_\_\_

Round: 1 Table: B



(please circle all selections or fill in the blanks)

- ① **M01 Shark Shipment -- Nothing can touch the Shark except the tank**  
Shark and tank are completely in Target NONE - T1 T2  
Shark touching only tank floor (NOT wall)  Yes  No  
Nothing touched the Shark except the tank\*  Yes  No
- ② **M02 Service Dog Action**  
-- Robot must cross fence from West, between barriers  
Warning Fence is down  Yes  No  
Robot completely crossed fence\*  Yes  No
- ③ **M03 Animal Conservation -- Pairs made by rotation of Model**  
Pairs of Identical Animals completely on same side  0  1  2  3  4  5  6
- ④ **M04 Feeding -- (only one color per Area)**  
Pieces of food completely in Animal Areas  0  1  2  3  4  5  6  7  8
- ⑤ **M05 Biomimicry**  
Wall supports complete weight of White Gecko  Yes  No  
Wall supports complete weight of Robot  Yes  No
- ⑥ **M06 Milking Automation -- Movement made by red lever**  
All Milk has rolled out\*  Yes  No  
All Manure has rolled out\*  Yes  No
- ⑦ **M07 Panda Release**  
Slider appears fully opened clockwise  Yes  No
- ⑧ **M08 Camera Recovery**  
Camera is completely in Base  Yes  No

Team Initials: \_\_\_\_\_

- ⑨ **M09 Training and Research**  
-- Manure samples must be moved one at a time  
Dog, Trainer completely in Training/Research Area  Yes  No  
Zoologist completely in Training/Research Area  Yes  No  
Manure completely in Training/Research Area\* NONE (1-7) \_\_\_\_\_
  - ⑩ **M10 Bee Keeping**  
Bee is on Beehive with NO Honey in Beehive  Yes  No  
Bee is on Beehive and Honey is completely in Base  Yes  No
  - ⑪ **M11 Prosthesis**  
Prosthesis fitted to Pet, NOT held by Ref  Yes  No  
Prosthesis fitted to Pet and completely in Farm  Yes  No
  - ⑫ **M12 Seal in Base**  
Seal is completely in Base, NOT broken  Yes  No
  - ⑬ **M13 Milk in Base**  
All three Milk are completely in Base  Yes  No
  - ⑭ **M14 Milk on Ramp (Select option that best fits)** NONE A B C  
A) All three milk supported by Ramp  
B) (A) + only things supported by & touching Ramp  
C) (A) + (B) + standing
  - ⑮ **M15 All Samples**  
All seven Manure Samples completely in Training/Research Area  Yes  No
- P Penalties**  
Number of Manure Samples in the white triangle area  0  1  2  3  4  5
- Return Loose Items**  
1xGorilla, 1xBat, 1xFleming, 1xFrog, 1xWhiteGecko,  
1xShark&Tank, 1xProsthesis, 12xManureSamples, 3xManure,  
3xMilk, 8xFood, 1xPet, 1xBee, 1xHoney, 1xSeal, 1xCamera

Team #:

4

Referee:

Round:

2

Table:

A



(please circle all selections or fill in the blanks)

- ① **M01 Shark Shipment -- Nothing can touch the Shark except the tank**  
Shark and tank are completely in Target **NONE** T1 T2  
Shark touching only tank floor (NOT wall) Yes  No   
Nothing touched the Shark except the tank\* Yes  No
- ② **M02 Service Dog Action**  
-- Robot must cross fence from West, between barriers  
Warning Fence is down  Yes  No   
Robot completely crossed fence\* Yes  No
- ③ **M03 Animal Conservation -- Pairs made by rotation of Model**  
Pairs of Identical Animals completely on same side\* 0 1 2 3 4 5 6
- ④ **M04 Feeding -- (only one color per Area)**  
Pieces of food completely in Animal Areas 0 1 2 3 4 5 6 7 8
- ⑤ **M05 Biomimicry**  
Wall supports complete weight of White Gecko Yes  No   
Wall supports complete weight of Robot Yes  No
- ⑥ **M06 Milking Automation -- Movement made by red lever**  
All Milk has rolled out\* Yes  No   
All Manure has rolled out\* Yes  No
- ⑦ **M07 Panda Release**  
Slider appears fully opened clockwise Yes  No
- ⑧ **M08 Camera Recovery**  
Camera is completely in Base Yes  No

Team Initials: \_\_\_\_\_

- ⑨ **M09 Training and Research**  
-- Manure samples must be moved one at a time  
Dog, Trainer completely in Training/Research Area Yes  No   
Zoologist completely in Training/Research Area Yes  No   
Manure completely in Training/Research Area\* **NONE** (1-7) \_\_\_\_\_
- ⑩ **M10 Bee Keeping**  
Bee is on Beehive with NO Honey in Beehive Yes  No   
Bee is on Beehive and Honey is completely in Base Yes  No
- ⑪ **M11 Prosthesis**  
Prosthesis fitted to Pet, NOT held by Ref  Yes  No   
Prosthesis fitted to Pet and completely in Farm Yes  No
- ⑫ **M12 Seal in Base**  
Seal is completely in Base, NOT broken Yes  No
- ⑬ **M13 Milk in Base**  
All three Milk are completely in Base Yes  No
- ⑭ **M14 Milk on Ramp (Select option that best fits)**  
**NONE** A B C  
A) All three milk supported by Ramp  
B) (A) + only things supported by & touching Ramp  
C) (A) + (B) + standing
- ⑮ **M15 All Samples**  
All seven Manure Samples completely in Training/Research Area Yes  No
- P **Penalties**  
Number of Manure Samples in the white triangle area 0 1 2 3 4 5  
Return Loose Items  
1xGorilla, 1xBat, 1xFlamingo, 1xFrog, 1xWhiteGecko,  
1xShark&Tank, 1xProsthesis, 12xManureSamples, 3xManure,  
3xMilk, 8xFood, 1xPet, 1xBee, 1xHoney, 1xSeal, 1xCamera

Team #:

4

Referee:

\_\_\_\_\_

Round:

3

Table:

A



(please circle all selections or fill in the blanks)

- 1 M01 Shark Shipment -- *Nothing can touch the Shark except the tank*  
Shark and tank are completely in Target NONE T1 T2  
Shark touching only tank floor (NOT wall) Yes No  
Nothing touched the Shark except the tank\* Yes No
- 2 M02 Service Dog Action  
-- *Robot must cross fence from West, between barriers*  
Warning Fence is down Yes No  
Robot completely crossed fence\* Yes No
- 3 M03 Animal Conservation -- *Pairs made by rotation of Model*  
Pairs of Identical Animals completely on same side\* 0 1 2 3 4 5 6
- 4 M04 Feeding -- *(only one color per Area)*  
Pieces of food completely in Animal Areas 0 1 2 3 4 5 6 7 8
- 5 M05 Biomimicry  
Wall supports complete weight of White Gecko Yes No  
Wall supports complete weight of Robot Yes No
- 6 M06 Milking Automation -- *Movement made by red lever*  
All Milk has rolled out\* Yes No  
All Manure has rolled out\* Yes No
- 7 M07 Panda Release  
Slider appears fully opened clockwise Yes No
- 8 M08 Camera Recovery  
Camera is completely in Base Yes No

Team Initials: \_\_\_\_\_

- 9 M09 Training and Research  
-- *Manure samples must be moved one at a time*  
Dog, Trainer completely in Training/Research Area Yes No  
Zoologist completely in Training/Research Area Yes No  
Manure completely in Training/Research Area\* NONE (1-7)
- 10 M10 Bee Keeping  
Bee is on Beehive with NO Honey in Beehive Yes No  
Bee is on Beehive and Honey is completely in Base Yes No
- 11 M11 Prosthesis  
Prosthesis fitted to Pet, NOT held by Ref Yes No  
Prosthesis fitted to Pet and completely in Farm Yes No
- 12 M12 Seal in Base  
Seal is completely in Base, NOT broken Yes No
- 13 M13 Milk in Base  
All three Milk are completely in Base Yes No
- 14 M14 Milk on Ramp (*Select option that best fits*)  
NONE A B C  
A) All three milk supported by Ramp  
B) (A) + only things supported by & touching Ramp  
C) (A) + (B) + standing
- 15 M15 All Samples  
All seven Manure Samples completely in Training/Research Area Yes No
- P Penalties  
Number of Manure Samples in the white triangle area 0 1 2 3 4 5
- Return Loose Items  
1xGorilla, 1xBat, 1xFleming, 1xFrog, 1xWhiteGecko,  
1xShark&Tank, 1xProsthesis, 12xManureSamples, 3xManure,  
3xMilk, 8xFood, 1xPet, 1xBee, 1xHoney, 1xSeal, 1xCamera

28



# Core Values

Team Number TEAM EMLYN  
 Judging Room \_\_\_\_\_

4

Directions: For each skill area, clearly mark the box that best describes the team's accomplishments. If the team does not demonstrate skill in a particular area, then put an 'X' in the first box for Not Demonstrated (ND). Please provide as many written comments as you can to acknowledge each team's hard work and to help teams improve. When you have completed the evaluation, please circle the team's areas of strength.

	Beginning	Developing	Accomplished	Exemplary	
<b>Inspiration</b>	<b>Discovery</b> Balanced emphasis on all three aspects (Robot, Project, Core Values) of FIRST LEGO League; it's not just about winning awards				
	N D	emphasis on only one aspect; others neglected	emphasis on two aspects; one aspect neglected	emphasis on all three aspects	balanced emphasis on all three aspects
	<b>Team Spirit</b> Enthusiastic and fun expression of the team identity				
	N D	minimal enthusiasm AND minimal identity	minimal enthusiasm OR minimal identity	team is enthusiastic and fun; clear identity	team engages others in their enthusiasm & fun; clear identity
<b>Integration</b>	Application of FIRST LEGO League values and skills outside FIRST LEGO League (ability to describe current and potential examples from daily life)				
	N D	team does not apply values and skills outside FIRST LEGO League	team able to describe at least one example	team able to describe multiple examples	team able to describe multiple examples, incl. individual stories

Comments: Team of 3.  
 Canceled sheep all terrain vehicle solution

<b>Teamwork</b>	<b>Effectiveness</b> Problem solving and decision making processes help team achieve their goals				
	N D	team goals AND team processes unclear	team goals OR team processes unclear	clear team goals and processes	clear processes enable team to accomplish well defined goals
	<b>Efficiency</b> Resources used relative to what the team accomplishes (time management, distribution of roles and responsibilities)				
N D	limited time management AND unclear roles	limited time management OR unclear roles	excellent time management and role definition allows team to accomplish most goals	excellent time management and role definition allows teams to accomplish all goals	
<b>Kids Do the Work</b>	Appropriate balance between team responsibility and coach guidance				
	N D	limited team responsibility AND excessive coach guidance	limited team responsibility OR excessive coach guidance	Good balance between team responsibility and coach guidance	team independence with minimal coach guidance

Comments: ✓ 4  
 ✓ 4  
 ✓ 4

<b>Inclusion</b>	Consideration and appreciation for the contributions (ideas and skills) of all team members, with balanced involvement				
	N D	unbalanced team involvement AND lack of appreciation for contributions	unbalanced team involvement OR lack of appreciation for contributions	balanced team involvement AND appreciation for contributions of most team members	balanced team involvement AND appreciation for contributions of all team members
	<b>Respect</b> Team members act and speak with integrity so others feel valued-- especially when solving problems or resolving conflicts				
N D	not evident with majority of team members	evident with majority of team members	almost always evident with all team members	always evident, even in the most difficult situations	
<b>Coopertition®</b>	Team competes in the spirit of friendly competition and cooperates with others				
	N D	not evident with majority of team members	evident with majority of team members	almost always evident with all team members	always evident, even in difficult situations--and team actively helps other teams

Comments: ✓ 4  
 ✓ 4  
 ✓ 4

<b>Strengths:</b>	<b>Inspiration</b>	<b>Teamwork</b>	<b>Gracious Professionalism®</b>
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# Robot Design

Team Number 4  
Judging Room \_\_\_\_\_

Directions: For each skill area, clearly mark the box that best describes the team's accomplishments. If the team does not demonstrate skill in a particular area, then put an 'X' in the first box for Not Demonstrated (ND). Please provide as many written comments as you can to acknowledge each team's hard work and to help teams improve. *When you have completed the evaluation, please circle the team's areas of strength.*

		Beginning	Developing	Accomplished	Exemplary
Mechanical Design	<b>Durability</b>	Evidence of structural integrity; ability to withstand rigors of competition			
	N	quite fragile; breaks a lot	frequent or significant faults/repairs	rare faults/repairs	sound construction; no repairs
	D				
	<b>Mechanical Efficiency</b>	Economic use of parts and time; easy to repair and modify			
N	excessive parts or time to repair/modify	inefficient parts or time to repair/modify	appropriate use of parts and time to repair/modify	streamlined use of parts and time to repair/modify	
D					
<b>Mechanization</b>	Ability of robot mechanisms to move or act with appropriate speed, strength and accuracy for intended tasks (propulsion and execution)				
N	imbalance of speed, strength and accuracy on most tasks	imbalance of speed, strength and accuracy on some tasks	appropriate balance of speed, strength and accuracy on most tasks	appropriate balance of speed, strength and accuracy on every task	
D					

4  
4  
3

Comments:

(11)

Programming	<b>Programming Quality</b>	Programs are appropriate for the intended purpose and would achieve consistent results, assuming no mechanical faults			
	N	would not achieve purpose AND would be inconsistent	would not achieve purpose OR would be inconsistent	should achieve purpose repeatedly	should achieve purpose every time
	D				
	<b>Programming Efficiency</b>	Programs are modular, streamlined, and understandable			
N	excessive code and difficult to understand	inefficient code and challenge to understand	appropriate code and easy to understand	streamlined code and easy for anyone to understand	
D					
<b>Automation/Navigation</b>	Ability of the robot to move or act as intended using mechanical and/or sensor feedback (with minimal reliance on driver intervention and/or program timing)				
N	frequent driver intervention to aim AND retrieve robot	frequent driver intervention to aim OR retrieve robot	robot moves/acts as intended repeatedly w/ occasional driver intervention	robot moves/acts as intended every time with no driver intervention	
D					

4  
4  
4

Comments:

(12)

Strategy & Innovation	<b>Design Process</b>	Ability to develop and explain improvement cycles where alternatives are considered and narrowed, selections tested, designs improved (applies to programming as well as mechanical design)			
	N	organization AND explanation need improvement	organization OR explanation need improvement	systematic and well-explained	systematic, well-explained and well-documented
	D				
	<b>Mission Strategy</b>	Ability to clearly define and describe the team's game strategy			
N	no clear goals AND no clear strategy	no clear goals OR no clear strategy	clear strategy to accomplish the team's well defined goals	clear strategy to accomplish most/all game missions	
D					
<b>Innovation</b>	Creation of new, unique, or unexpected feature(s) (e.g. designs, programs, strategies or applications) that are beneficial in performing the specified tasks				
N	original feature(s) with no added value or potential	original feature(s) with some added value or potential	original feature(s) with the potential to add significant value	original feature(s) that add significant value	
D					

3  
3  
2

Comments:

(6)

<b>Strengths:</b>	<b>Mechanical Design</b>	<b>Programming</b>	<b>Strategy &amp; Innovation</b>
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Sutter

(31) +

Entry #

Team Number 44  
Judging Room \_\_\_\_\_

Directions: For each skill area, clearly mark the box that best describes the team's accomplishments. If the team does not demonstrate skill in a particular area, then put an 'X' in the first box for Not Demonstrated (ND). Please provide as many written comments as you can to acknowledge each team's hard work and to help teams improve. When you have completed the evaluation, please circle the team's areas of strength.

		Beginning	Developing	Accomplished	Exemplary	
Research	<b>Problem Identification *</b> Clear definition of the problem being studied					
	N	unclear; few details	partially clear; details missing	mostly clear; detailed	clear; very detailed	4
	D					
	<b>Sources of Information</b> Types (e.g. books, magazines, websites, reports and other resources) and number of quality sources cited, including professionals in the field					
	N	one type of information cited; minimal sources	two types of information cited; several sources	three types of information cited; many sources, including professionals	four(+) types of information cited; extensive sources, incl. professionals	4
	D					
Comments:	<b>Problem Analysis</b> Depth to which the problem was studied and analyzed by the team					
	N	minimal study; no team analysis	minimal study; some team analysis	sufficient study and analysis by team	extensive study and analysis by team	4
	D					
	<b>Review Existing Solutions</b> Extent to which existing solutions were analyzed by the team, including an effort to verify the originality of the team's solution					
N	minimal review; no team analysis	minimal review; some team analysis	sufficient review and analysis by team	extensive review and analysis by team	4	
D						
Innovative Solution	<b>Team Solution *</b> Clear explanation of the proposed solution					
	N	difficult to understand	some parts confusing	understandable	easy to understand by all	2
	D					
	<b>Innovation</b> Degree to which the team's solution makes life better by improving existing options, developing a new application of existing ideas, or solving the problem in a completely new way					
N	existing solution/application	solution/application contains some original element(s)	original solution/application	original solution/application with the potential to add significant value	3	
D						
Comments:	<b>Implementation</b> Consideration of factors for implementation (cost, ease of manufacturing, etc.)					
	N	minimal factors considered	some factors considered	factors well considered; some question about proposed solution	factors well considered and feasible solution proposed	4
	D					
Presentation	<b>Sharing *</b> Degree to which the team shared their Project before the tournament with others who might benefit from the team's efforts					
	N	shared with one individual	shared with one group	shared with one individual or group who may benefit	shared with multiple individuals or groups who may benefit	1
	D					
	<b>Creativity</b> Imagination used to develop and deliver the presentation					
N	minimally engaging OR unimaginative	engaging OR imaginative	engaging AND imaginative	very engaging AND exceptionally imaginative	3	
D						
Comments:	<b>Presentation Effectiveness</b> Message delivery and organization of the presentation					
	N	unclear OR disorganized	partially clear; minimal organization	mostly clear; mostly organized	clear AND well organized	3
D						

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**Strengths:** Research Innovative Solution Presentation

\*Required for Award Consideration