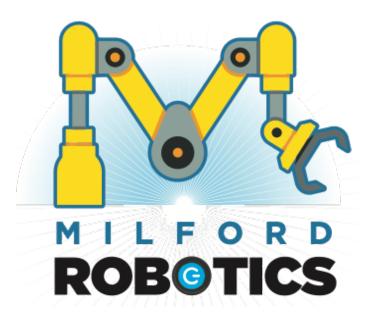
Engineering Notebook

CITY SHAPER









Student Name:_____

Robot Game







FIRST® LEGO® League is the result of an exciting alliance between FIRST® and the LEGO® Group.

F/RS7" and the F/RS7" logo are registered trademarks of F/RS7 (For Inspiration and Recognition of Science and Technology). LEGO* is a registered trademark of the LEGO Group. F/RS7" LEGO* League, the F/RS7 LEGO League logo, and CITY SHAPER™ are jointly held trademarks of F/RS7 and the LEGO Group. © 2019 F/RS7 and the LEGO Group. All rights reserved. FLD51

Vhat real worl	d problems ca	n be demon	strated with th	nis model?	



How do the Game Rules and field setup impact your strategy in the Robot game?

Which missions are located near each other on the field?
Which missions have similar elements?
Which missions could be grouped together for maximum points?
What is your game strategy? How many Missions will you attempt in the event?



What are some obstacle field?	es you may encount	er on the		
How can you program y	our robot to be fast	: AND reliable	on the Challer	nge field?
Sketch your robot solut and attachments?	ion. What does the	base look like	e? Does it have	e sensors





What changes did you make to your robot?		
How is the final design different from your first design? Sketch the changes.		

Sensors & Programming









What sensors does your robot use?
How does the robot use the sensors to get around the field?
Did you team use any MyBlocks? If yes, what do they do and how do they work?

/hat was your first ide	a for solving this mission?	(Sketch or photo your idea)
ow did your idea work	when you tested it?	

Did you make any changes to the robot design to improve the robot performance? What were they?
Did you make any changes to the programming to improve the robot performance? What were they?

What was your first idea for solving this missio	on? (Sketch or photo your idea)
ow did your idea work when you tested it?	
,	

Did you make any changes to the robot design to improve the robot performance? What were they?
Did you make any changes to the programming to improve the robot performance? What were they?

What was your first idea for solving this mission	on? (Sketch or photo your idea)
low did your idea work when you tested it?	

Did you make any changes to the robot design to improve the robot performance? What were they?
·
Did you make any changes to the programming to improve the robot performance? What were they?

Innovation Project



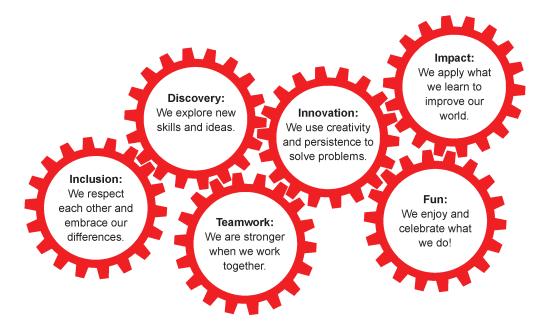


What do you find most interesting about the challenge?
What do you already know about the challenge topic?
What are some project topics your team considered?
What criteria did you team use to decide what your project topic would be?

What is the building or public space your team selected for the project?
What is the problem your team identified?
Who is the client for this job?
What are some constraints on your project solution?
How did you project solution change over time as you worked on it?

What research sources did you consult for this project?
,
Who did you identify as experts and why?
Expert Name:
Question:
Answer:

Core Values



What did you learn about working together as a team?
What are your key takeaways from this experience?
What was the most fun you had this season?