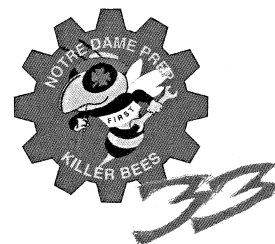


Killer Bees 2014 – FRC Kickoff Homework Assignment:



Name: _____

Please read the game rules thoroughly before attempting to complete this assignment.

2014 Manual can be found at <http://frc-manual.usfirst.org/>

1. How many points are possible to score in a 2:15 match by an alliance of 3 robots? _____
2. What is the maximum number of points you think a single robot can score in a match? _____
3. What do you think an average match score will be for each alliance? _____
4. Draw a sketch of your robot design idea below. Feel free to make additional sketches on other pages if needed.

5. How many points can your robot design score in a match? _____
6. Describe how you determined the answer to Question 5:
7. Each independently controllable movement or action on the robot is considered a function. Each function will require an actuator (motor or piston) and an electronic controller. Buzz18 had 6 non-drivetrain functions. Some great robots last year had only 3 functions. How many non-drivetrain functions are in your design? _____
8. Describe each function, what it does, how many positions it needs, etc.
9. If you had to delete one function from your design what would it be and why?
10. How will teams playing against us play defense against your design?
11. Please add any additional comments about what should be considered in a successful strategy and a winning design.

"Everything should be as simple as possible, but no simpler." - Albert Einstein - Physicist

"Anyone can make something complex; it takes a genius to make something simple."

— Pete Seeger - Author