



Grand Blanc High School Robotics Team



Initial Member Deliverables
Scouting Challenge – MARC

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Mentors to ask if you have questions about this Challenge: Brandi Bolinger, Clinton Bolinger or Cathy Fillwock

IMPORTANT NOTE: This challenge may only be completed at/after an event that you attend. You should read the instructions for this challenge at the BEFORE leaving for the event. You may not use information from others who attended this event to complete your deliverable.

Gather the following Materials:

1. Event Team List – tentative list available at <https://monroecountymarc.wixsite.com/marc/team-list>
2. Your Engineering Notebook
3. Writing Utensils, and possibly a clip board

Before Starting this Challenge:

1. Learn about the alliance selection process for FRC competitions. You can ask a Mentor, a Veteran Student (especially the Scouting Section Leader!), or look it up online.
2. Learn about the Strategy Dictates Design Method that the EngINERDs use. Here are some resources:
 - a. Strategy Dictates Design: How to Prioritize - http://www.team2337.com/uploads/8/2/9/1/8291371/strategy_dictates_design_instructions.pdf
 - b. Strategy Dictates Design Presentation by Clinton Bolinger - http://www.team2337.com/uploads/8/2/9/1/8291371/frc_2014_kickoff_-_strategy_dictates_design_-_team_2337.pdf
 - c. Strategy Dictated Design Documentation Example: http://www.team2337.com/uploads/8/2/9/1/8291371/2014_game_strategies.pdf

At the Event:

1. Visit each Team's pit and observe their robot, work space, and general operation of the Team, and take notes in your Engineering Notebook – documenting interesting things you see/encounter as you go along. You may speak with Team members and ask questions, but please avoid prohibiting Team members from completing their work.
2. Watch Teams perform on the field during qualification matches, and make observations in your Engineering Notebook about:
 - a. How their strategy is dictated by their robot's design
 - b. Methods/Strategy of play
 - c. Scoring ability and Methods of Scoring
 - d. Offensive Play ability
 - e. Defensive Play ability
 - f. Other important notes



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Challenge Instructions and Engineering Notebook Entry Instructions:

1. In your Engineering Notebook, create a “pick list” for the eliminations.
 - a. A Pick List should Include a list of the Teams that you believe would be the best fit to be ON AN ALLIANCE with OUR FRC TEAM.
 - b. List should be in rank-order, based on who you would pick first, if you were given the opportunity to pick any team you’d like, and no one else could “steal” your pick.
 - c. An FRC Pick list will include 24 Teams in rank order.
 - d. If you feel it necessary, you may create a “DO NOT PICK” list. Explain why, if you were selected by this team, you would rather form your own alliance or not participate in the event than play with them.
2. In your Engineering Notebook, give an explanation of why you selected the number one and number two Team on your list. What attributes about their Team, Robot and Strategy made you “pick” them?
3. During alliance selection:
 - a. Write down the Alliances that were selected (The Team numbers that were paired together) in your Engineering Notebook.
 - b. Did this play out like you expected? What surprised you?
 - c. Which alliance do you think is the strongest, and why?

To Complete Your Challenge:

- Take your completed Engineering Notebook entry to one of the Mentors listed on this challenge to have your deliverables checklist validated **AT A TEAM MEETING - NOT DURING THE EVENT.**