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## Grand Blanc High School Robotics Team 2015 Competition Deliverable Scouting Challenge – Kettering Kickoff



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

*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 BEGINNING of 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 (attached)
2. Your Engineering Notebook (or this paper, then transfer all of the information into your Engineering Notebook later)
3. Writing Utensils

### Before Starting this Challenge:

1. PUT ON YOUR SAFETY GLASSES, and visit some of the Team's pits to observe their robot, work space, and general operation of the Team, and take notes in your Engineering Notebook 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 QUALITATIVE AND QUANTITATIVE observations in your Engineering Notebook about how their strategy is dictated by their robot's design.
3. If you are new to FRC, learn about the alliance selection process for the FIRST Robotics Competition. Talk with Veteran Students about scouting and the alliance selection process.

### Challenge Instructions and Engineering Notebook Entry Instructions:

1. In your Engineering Notebook, create a "pick list" for the eliminations.
  - a. A FRC pick list will include 24 Teams in rank order. You may feel free to include OUR Team on your list, ranked where you believe we "deserve" to be picked.
  - b. A Pick List should Include a list of the Teams (displayed by Team Number) that you believe would be the best fit to be ON AN ALLIANCE with our Team's FRC robot.
  - c. 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.
  - 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? Please include quantitative and qualitative information in your description.
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?
4. At the end of the playoffs, discuss the following items:
  - a. Did the Team you selected as your first and/or second pick go on to win?
  - b. Explain why they did/did not win, and whether or not the skill(s) that you based your decision on played a factor in their performance.

### To Complete Your Challenge:

- Take your completed Engineering Notebook entry to Clinton or Brandi AT THE NEXT TEAM MEETING YOU ATTEND to have your deliverables checklist validated.



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# 2015 Kettering Kickoff Tentative Team List

*This Team list may change based on who shows up to the event, and is out of our control. Please feel free to make your OWN edits to this list.*

*You do NOT need to inform Brandi of any changes to the Team List.*

Team Number	High School	Team Name
27	Clarkston High School	Team RUSH
33	Notre Dame Preparatory	Killer Bees
48	Pershing High School	The Doughbots
51	Pontiac Schools	The Wings of Fire
68	Brandon High School	Truck Town Thunder
70	Goodrich High School	More Martians
74	Holland High School	Team CHOAS
107	Holland Christian	Team R.O.B.O.T.I.C.S
217	Utica Community Schools MST	The ThunderChickens
226	Troy HS and Athens HS	Hammerheads
245	Rochester Adams HS	Adambots
247	Berkley High School	Da Bears
314	Carman-Ainsworth High School	Megatron Oracles
494	Goodrich High School	Martians
548	Northville High School	Robostangs
862	Plymouth Canton Educational Park	Lightning Robotics
894	Powers Catholic HS	Powers Chargers
1243	Swartz Creek High School	Swartz Creek Dragons
1322	Home School	The G.R.A.Y.T. Leviathons
1506	Kettering University	Metal Muscle
1684	Lapeer High School	The Chimeras
2054	Hopkins HS	Tech Vikes
2137	Oxford High School	TORC
2145	Lake Fenton	HAZMAT's
2337	Grand Blanc High School	EngiNERDS
2604	Capac Community Schools	Metal & Soul
2832	Livonia Public School	The Livonia Warriors
2834	Bloomfield Hills High School	Bionic Black Hawks
2960	Seaholm/Groves High School	Automation Nation
3322	Skyline High School	Eagle Imperium
3534	Davison High School	House of Cards
3538	Avondale High School	Avondale RoboJackets
3641	South Lyon East High School	The Flying Toasters
3656	Dexter High School	Dexter Dreadbots
4362	Charyl Stockwell Preparatory School	Gems
4776	Howell High School	SCOTS Bots
4779	Cardinal Mooney Catholic	Robosapiens
4961	Almont High School	Shock and Awe-sum
5048	Imlay City High School	Spartronics
5053	Our Lady of the Lakes	Laker Robotics
5090	Trenton High School	Tordue-Nados
5114	Fenton High School	Titanium Tigers
5201	North Branch High School	Bronco Bots
5214	South Lake High School	The Mightly CavBots
5436	Rochester Stoney Creek HS	CyberCats
5502	Jonesville HS	The Cobrots
5527	International Academy of Flint	Cyber Phoenix
5660	Atherton Jr/Sr High School	Atherton Tobotics Team