

Group Assignment #1
2009 ASEE Model Design Competition

- 1) Read the rules for the 2009 ASEE Model Design Competition.
- 2) Brainstorm for ideas for a robotic vehicle to compete in the event.
- 3) Decide on a single robotic vehicle design that your team would like to pursue.
- 4) Turn in the following items by the assigned due date:
 - a. Include a cover page with the assignment number, date, and each team member's name.
 - b. Describe how your vehicle will work. Be sure to include such items as:
 - Where the vehicle will be place on the track
 - The path it will follow (include a sketch). If it needs to make turns, how will it do so? IR sensors?
 - How will the robot pick up, sort, and deliver the balls?
 - Will the vehicle require programming? What microprocessor will be used? BASIC Stamp?
 - c. Include a TOP and SIDE view of the vehicle. Use the rectangular graph paper provided in the sketching workbook (it is also available on the instructor's web page). Include as many dimensions as possible. Label parts.
 - d. Provide a list of parts that will be needed