**Day 1 Plan:**

**Schedule**

**9:00 – 11:30**

**TODAY WILL GO VERY QUICKLY!**

* (30 min.) Pre- Assessment
* At same time - quietly:
  + Class Roster corrections
  + Fill out personal information sheet
  + name placards (students write clearly)
* (15 min.) Name Games
  + actions starting with same letter as name
  + bingo – scavenger hunt
* (20 min.) Introductions
  + Tell us a little about yourself. Where are you from?
  + Hobbies? What do you like to do?
  + What are you interested in about robots?
  + Tell us about a cool robot you have seen or heard about.
  + If you could build any cool robot, what would it be?
  + Have you used Lego Mindstorms NXT
* Write names in Journals & Books
  + Everyone have journal, folder, pens/pencils
  + Everyone have textbook (Mayan Adventure)
    - write name on inside cover

**Break (Wa or soccer together)**

* (10 min.) Honor Code
  + read together, sign
* (10 min.) Computer Use Code (other side)
  + read together, Sign
* Lab safety form (Arduino)
  + read together, sign
* (20 min.) Campus and Classroom Expectations
  + Build interactively on large paper, put on wall
    - No cellphones or “cows”, etc.
  + **Some clarity about consequences**
    - Bathroom/dessert system
    - bouncing ball before columns
    - complaining -> journaling about honor code during break
    - fighting -> sitting out part of break, missing dessert, etc.
    - cellphones/cows will be left in dorm
* (15 min.) Robotics Presentation (Short)
  + Define Robot (questions)
  + Ask them for some examples
  + Examples of Robots
    - Slides, video
  + Worksheet on back to be done during slack-time..
* (20 min.) Kit Inventory (worksheet) (Galen and Andrew)
  + Go over names, uses of parts
  + Write down names
  + Write down missing parts on sheet
  + Have TA complete kits from sheets (during simplebot build)
    - Bring down a few boxes and share
* (10 min.) (optional) Human Robots
  + Form groups (6 groups of 2 - distribute genders)
  + Pick person A, B (TA fills in last group)
  + A is programmer; B robot
  + B starts in one location, C in another
  + Possible instructions are ONLY:
    - Take one step forward
    - Turn Left 90 degrees
    - Pickup ball
    - Hold out hand
    - Put down ball
  + Task: B must pickup ball, put ball in designated location
  + “problem” – steps aren’t standardized...hmm

- (5 min) Journal - Before

* + Day #
  + Robot Name
  + Problem Description
  + Constraints/Limitations
  + Task List
  + Brainstorm
  + Sketch (top and side)

- 5 mins, program, test, debug

switch robots and programmers

- 5 mins, program, test, debug

* (10 min.) Discuss
  + What went well/poorly in group?
  + well/poorly in programming?
  + Observations?
  + Did you succeed in getting the ball to its location?
  + What were some challenges?
  + What did you learn?
  + How did you feel about being a robot or programmer?

12:30 -2:30

2:45 – 4:00

4:00

* (15 min.) Cleanup
* Can color robot poster if done with Cleanup