

CS 444 - Project 1 - Stage 2

- * Project 1 - Stage 2 is INVENTORYING the Lego Mindstorms Education kit.
 - * If you don't have it already, I'll give you your team NXT brick; for Stage 2, you do **not** need the power adapter or the USB cable.
 - * You will also be given:
 - * the plastic box with Lego and Technic and other pieces for constructing Lego Mindstorms robots, which I'm calling the Lego kit or the robot kit or just the kit here;
 - * two photocopied pages -- copies of the two pieces of cardboard at the top of each kit -- which show how many of each kind of piece should be in each rectangular compartment in the two "levels" within the kit.
 - * I'm calling these two pages the inventory pages here.
 - * You will MARK these inventory pages as specified below with the results of your inventory and turning them in to complete this stage.
 - * **NOTE: at least one piece (*besides* the NXT brick, its battery pack, and its USB cable) has been removed from each kit...**
- * An early stage in each project will be inventorying the kit to make sure all the pieces are there when you start out --
...and a late stage in each project will be inventorying the kit to make sure all the pieces are there when a project is done.
 - * one purpose of this is to make sure that you have what you need -- and that the NEXT team to use that kit are likely to have what **they** need;
 - * another purpose simply is to keep the 431 pieces that make up each Lego Mindstorms Education kit organized and more reasonable to find and use;
 - * and an additional purpose, for this first project especially, is to start getting familiar with the pieces you will be using this semester and where to find them within the kit.

how to inventory your kit for Project 1 - Stage 2

- * CAREFULLY remove the items from one rectangular compartment in one of the two "levels" within the kit
 - * These SHOULD correspond to the kind and number of items in the corresponding rectangle on one of the two inventory pages.
- * IF you indeed have the correct number of a type of piece in that compartment, put a large CHECK MARK (✓) on TOP of the picture of that type of piece in the rectangle on the inventory page.
 - * what if you do NOT have the correct number of a type of piece in that compartment?
Then, do **NOT** put a check mark on that piece's picture -- instead, draw a small SQUARE next to that piece, writing next to the square the NUMBER of how many of that piece that are missing.
- * THEN **return** all of that type of piece TO the correct compartment within the "level"!

after you have completed your inventory

- * when you have completed your inventory, all team members present should SIGN both inventory pages -- you are saying, by doing this, that all of you present agree that the inventory has been completed.
- * put your name on the NEXT list on the board in BSS 313
- * when it is your turn, I will come to you, and you will give me your team's two inventory pages.
 - * I will make sure that **all** of the pictures on those inventory pages either have a check mark on **top** of them OR a square and a number **next** to them, and that all present team members have signed both inventory pages.
 - * My plan/hope is to replace missing pieces (**except** for the USB cable) at this point -- as I do so, ***I*** will check the square and initial that I have provided you with replacements for that piece.
 - * (and note that, since at least one piece was removed from each kit, I should be replacing at least one piece from each kit at this point... BUT you will get back the USB cable at a later stage.)
- * You should now be finished with STAGE 2 of PROJECT 1.
- * ASK ME what you should do next...