# Lesson # 2-3: Evaluate robot body designs and create algorithms to control robot behavior

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| Overview *Design and programming algorithms for a robot and the different sensors , parts and materials needed for a robot to accomplish a designated task* Lesson Summary  * *Instead of following the lesson plan I did not start with the journal* * *I went right into the shoe tying activity setting up stations with the different tools for them to use. I set a time limit at each station of 3 minutes, then rotate to the next station (have a station for each group, I had 8 groups of 3 to 4)* * *After each group rotated to each station I asked which ones did they find difficult.* * *I then did the journal entry How does a robots purpose, design relate and affect the algorithm and future designs of robots* * *Next day do the walk like a robot activity* * *Journal entry – What other algorithms would a robot need to balance, walk, move.* * *End with the youtube video and discussion about design sensors, purpose, and algorithms*  CS Content *Relation of robot design, purpose and algorithm* |  |  | Objectives **Students will be able to:**   * Evaluate how the design of a robot’s body affects its behavior /algorithm programming * Create an algorithm to direct a human “robot” to accomplish a task  Materials and Prep  * Tape – painters tape * Tongue depressors or popsicle sticks * Gloves – any type or one thin, one thick * pliers * I used dry erase board markers * I also used tweezers or forceps * Used shoes  Resources **Student Documents**   * journals   **Code Studio**   * NA   **Video**   * https://www.youtube.com/watch?v=o4JuJ4Frxl4   **Assessments**   * Journal Entry * Explain the relation of a robots purpose, design, and algorithm  Notes  |  | | --- | |  | |  | |  | |