# 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

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