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| **Activity 6.4 Product Disassembly Chart** |

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| Product Name: | **Automoblox S9 Sedan** | Group members: | **Evan West** |
| Date: | **11/24** |  | **Suraj Pendyala** |
| Time: | **11:00** |  |  |

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| ***Part#*** | ***Part Name*** | ***Qty*** | ***Dimensions*** | ***Function*** | ***Material*** | ***Density*** | ***Mass******or Weight*** | ***Texture and Finish*** | ***Interaction with Other Parts*** | ***General Notes******(i.e.; wear, stress indicators)*** |
| *1* | *Wheel* | *4* | *1.69cm diameter* | *To rotate around an axle, and to allow for movement of the car as a whole* | *Polyethylene* | *-* | *-* | *Strong, smooth* | *Is attached to part of the axle coming out of the side of the front and back pieces.* | *12 spokes, all symmetrical* |
| *2* | *Tire* | *4* | *1.632 cm diameter* | *To go on the wheel and keep the wheel flat to the ground and give it a necessary amount of friction* | *Styrene-Butadiene Rubber* | *-* | *-* | *Flexible, high traction* | *Goes around the wheel making it act as one.* | *Has a indented pattern that goes around the entire thing* |
| *3* | *Connector Piece* | *3* | *2.74 cm width, .785cm height, .973cm depth, .538cm hole diameter* | *To allow for connection between the four main sections of the car without them coming apart easily.* | *Polyethylene* | *-* | *-* | *Rigid, strong* | *Is inserted into the middle pieces and back pieces, and can connect with the extruded circles in the back of other pieces allowing for connection.* | *Made of 3 sections, rigid in the middle, holes in the outer two* |
| *4* | *Circle Person* | *1* | *1.879cm height, .563cm crcle diameter* | *Simulates a person in the car. Used only for realism* | *Polyethylene* | *-* | *-* | *Strong and Smooth* | *Inserted into a circle shape hole in the first idle section of the car.* | *No general notes* |
| *5* | *Square Person* | *1* | *1.879cm height, .563cm square length and width* | *Simulates a person in the car. Used only for realism* | *Polyethylene* | *-* | *-* | *Strong and Smooth* | *Inserted into a square shape hole in the first idle section of the car.* | *No general notes* |
| *6* | *Triangle Person* | *1* | *1.879cm height, .563cm triangle base width, .157cm^3 triangle volume* | *Simulates a person in the car. Used only for realism* | *Polyethylene* | *-* | *-* | *Strong and Smooth* | *Inserted into a triangle shape hole in the first idle section of the car.* | *No general notes* |
| *7* | *Star person* | *1* | *1.879cm height, .563 cm star width* | *Simulates a person in the car. Used only for realism* | *Polyethylene* | *-* | *-* | *Strong and Smooth* | *Inserted into a star shape hole in the first idle section of the car.* | *No general notes* |

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| ***Part#*** | ***Part Name*** | ***Qty*** | ***Dimensions*** | ***Function*** | ***Material*** | ***Density*** | ***Mass******or Weight*** | ***Texture and Finish*** | ***Interaction with Other Parts*** | ***General Notes******(i.e.; wear, stress indicators)*** |
| *8* | *Front* | *1* | *3.261 cm width, 1.553cm height, 1.5 cm depth, .535cm, .261cm hole diameter* *.708, .221, hole depths, .5cm visible axle length.* | *To hold two wheels onto the car, and to give the car a shape and form.* | *Canadian Maple Hardwood* |  | *-* | *Hard and Smooth* | *Holds two of the wheels and connects to a -connector part.* | *Curved at the front, indented holes at the front* |
| *9* | *Middle #1* | *1* | *.3261cm depth and width, 1.553cm height, .969 depth of square hole in the center* | *To give the car depth and to hold the people inside of it, allows for the windshield to be held as well.* | *Canadian Maple Hardwood* |  | *-* | *Hard and Smooth* | *Holds all four people, connects to and gives a connection to front and other middle, hold the windshield in place.* | *Complete square, indented whole with 4 shapes* |
| *10* | *Middle #2* | *1* | *.3261 cm width, 1.531 depth, 1.391 height* | *To give the car depth and a place to hold the remaining part of the windshield.* | *Canadian Maple Hardwood* |  | *-* | *Hard and Smooth* | *It connects to and gives connection to the first middle and the back piece.* | *Rectangular, no other notes* |
| *11* | *Back* | *1* | *3.523cm width, 1.595cm height, 1.604cm depth, .5 cm visible axle length* | *To hold the remaining two wheels, and to give the car a back, and to finish off the cars shape and make it look realistic* | *Canadian Maple Hardwood* |  | *-* | *Hard and Smooth* | *Holds the last two wheels and connects to the second middle piece.* | *Curved off, very similar to the front, automoblox logo* |
| *12* | *Windshield* | *1* | *.994, radius of semicircle, 4.283 semicirlce length, 1.959cm width, 1.574 square length and width* | *To make the car realistic and somewhat aerodynamic. Used mostly for realism.* | *Polyethylene* |  | *-* | *Smooth, curved* | *Is inserted into the second middle piece.* | *Made of semicircle and square, transparent,*  |
| *13* | *Axle* | *4* | *.3 in diameter* | *Keeps the wheels attatched to the car* | *Polyethylene* |  |  | *Strong, rigid* | *Holds and connects the wheels to the car* | *Only slightly visible, what shown is fairly small* |