Bill Of Material

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| **Part No.** | **Part Name, Description** | **Bill of Material** | **Manufacturing Method** |
| 1 | **Hull (Quantity: 1)**    -The Gravity Racer’s hull is the main base and it is hollow.  -There is a hole inside the hull for holding one PASCO hooked mass not to fall out of the Racer during the race.  - There are 4 holes on the hull to put the bearings and axles to it. | Tough Resin | 3D print |
| 2 | **Axle (Quantity: 2)**    -The axle will be interference fitted to the bore surface of the bearings by glue so the axle will not move laterally and can turn. | Tough Resin | 3D print |
| 3 | **Ball bearing (Quantity: 4)**    -The bearings outside diameter will be glue to the holes on the hull and connect the axle to the hull and make the axle can turn. | Steel | Machine manufactured  [1] |
| 4 | **Wheel (Quantity: 4)**    -The wheel is a part that roll and makes the Gravity Racer travel.  -With hollow cylinder shape, the wheel allows the axle to fit in and attach with it by glue.  -The wheels will spin alongside with the axle and make the car move. | Non-translucent Acrylic | Laser Cut |

[1] The Ball bearings can be purchase from this website:

<https://www.alibaba.com/product-detail/9x17x4-mm-S689-Open-Stainless-Steel_1600235188214.html?spm=a2700.7724857.normal_offer.d_title.6b6e612ayCkjep>