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| **Train Car Design Brief**  |

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| **Client Company:** | A Miniature Train Manufacturer |
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| **Target Consumer:** | All Ages |
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| **Designers:** |  |
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| **Problem Statement:** | A miniature train manufacturer has asked your design team to create four train cars that can be hooked to the train engine car you have previously created in the Model Miniature Train Project. |
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| **Design Statement:** | Design and model four train cars (one per group member) that can hook on the engine car. * Box car with working door
* Coal car with ladder
* Caboose with windows and door
* Tanker car with opening top hatch
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| **Constraints:** | 1. Use the wheels and axel peg from your train engine car.
2. In addition to the wheel and axel, each car must have a minimum of five **unique/different** parts once assembled. A part with the same shape and dimensions as another part isn’t considered unique.
3. Each car must be the same relative scale as the engine car.
4. Each car must be unique. Cars that look like copies of other team’s cars will receive no credit. Differences must extend beyond color or superficial details.
5. Dimensioned drawings of each part for your car.
6. Drawing of the assembly of your car with bubbles and parts list.
7. Drawing showing your groups assembled train.
8. All ipt, idw and iam files.
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| **Deliverables:** |