



arm

3D Design – CAD Software

Lesson 24



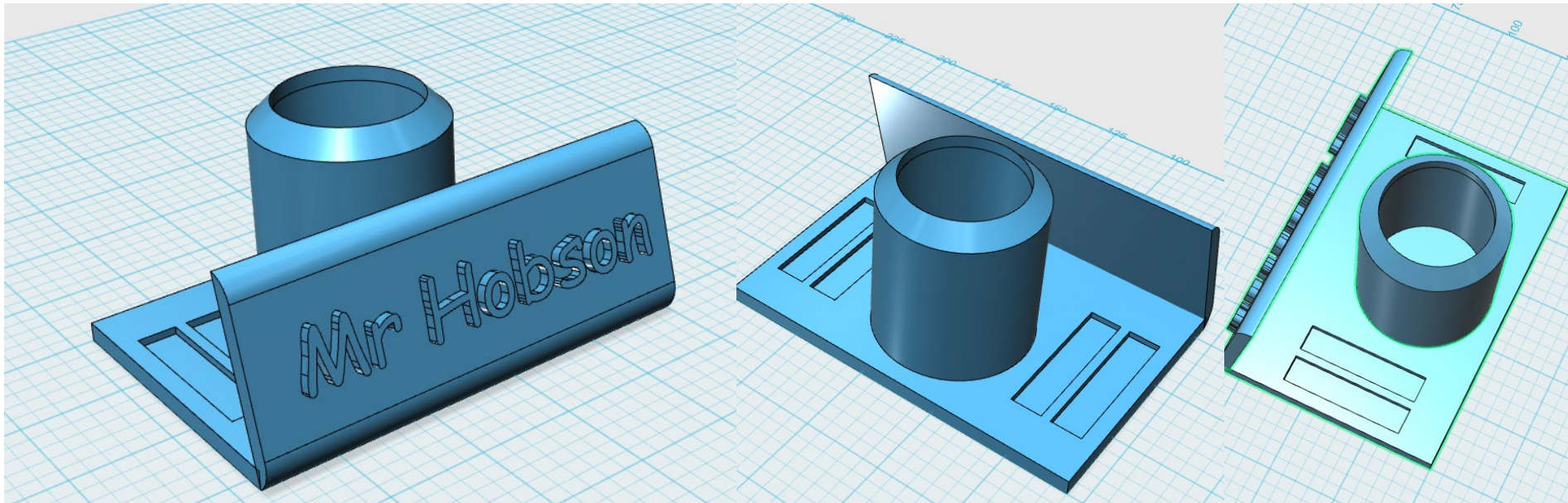
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Objectives

- Be able to represent 3D objects using computer aided design software
- Be able to represent a design in 3D using 123Design
- Design a plaque with your team name
- Design a box to keep your car in

Computer Aided Design

- Designers can use **CAD** software to make accurate 2D and 3D drawings
- Solid **modelling** with software such as Autodesk's 123Design is used to show how finished products will look
- Different colours and textures can be added and the model can be rotated to show different views
- The 3D file can be '**sliced**' using software such as Cura
- **Rapid prototyping** machines such as 3D printers can then be used to create prototypes of designs before mass production takes place

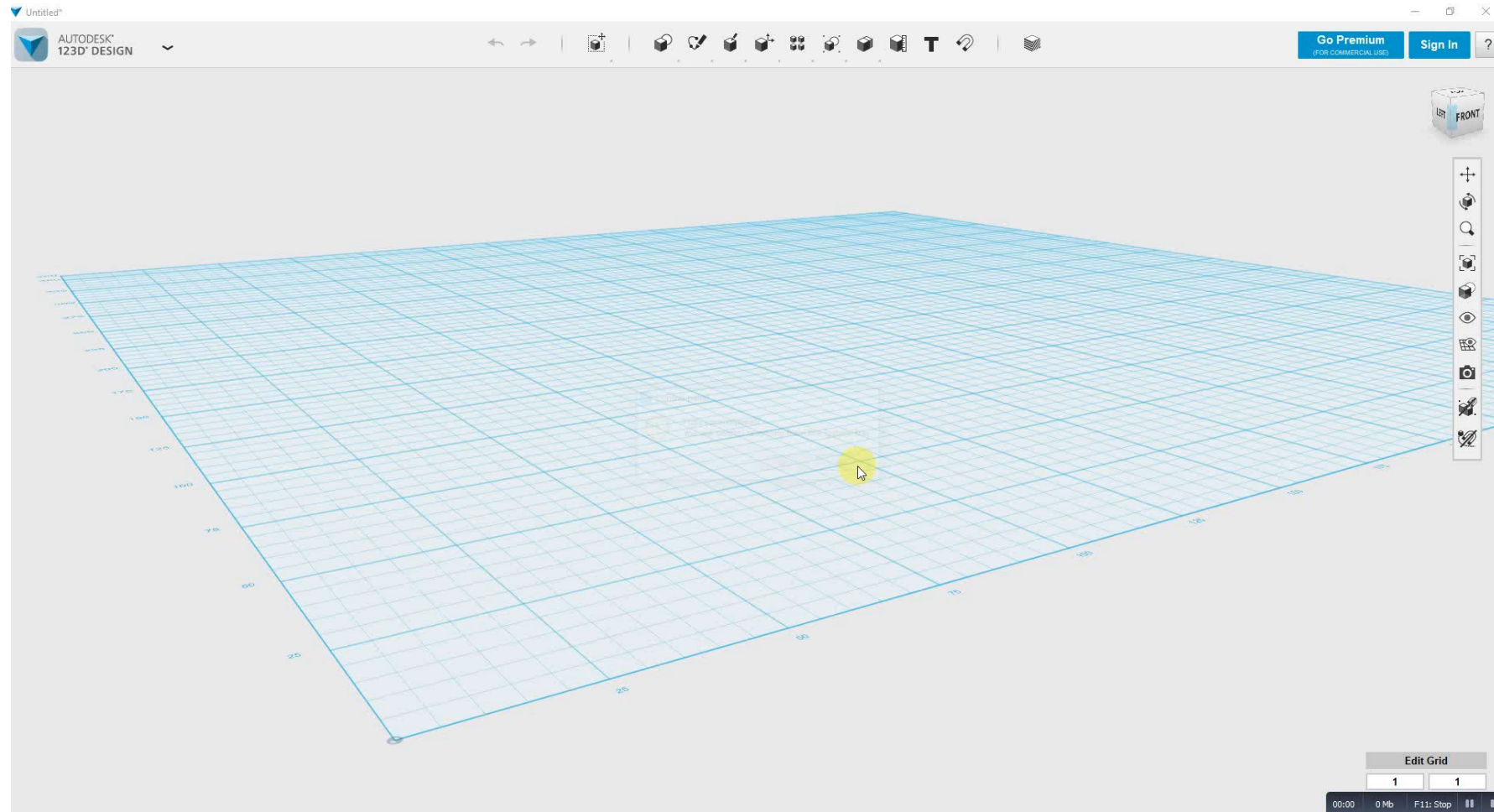


123 Design

- The tutorial included in this lesson make use of AutoDesk's 123Design
- This software is freely available from autoCAD without cost but is being replaced with online tools such as [TinkerCAD](#) or the more commercial aimed [Fusion360](#)

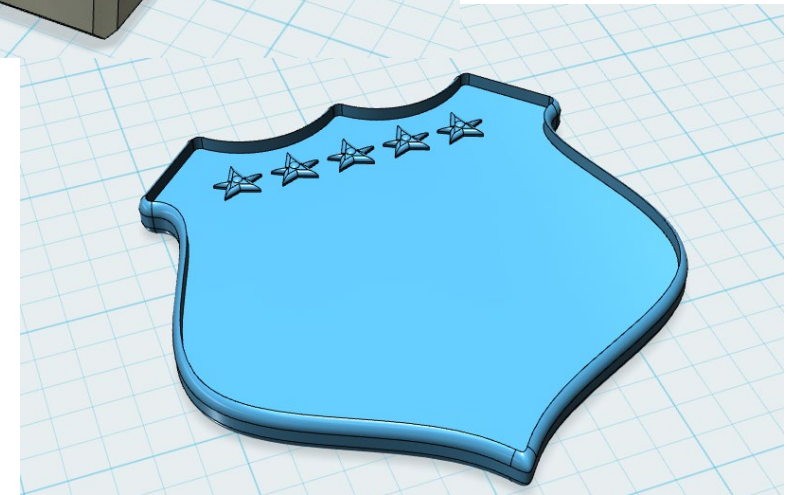
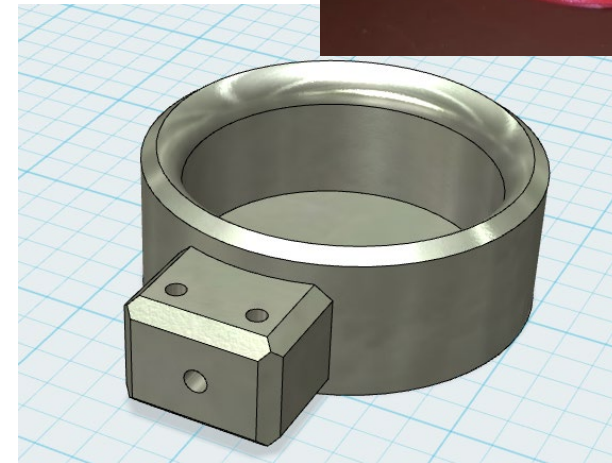
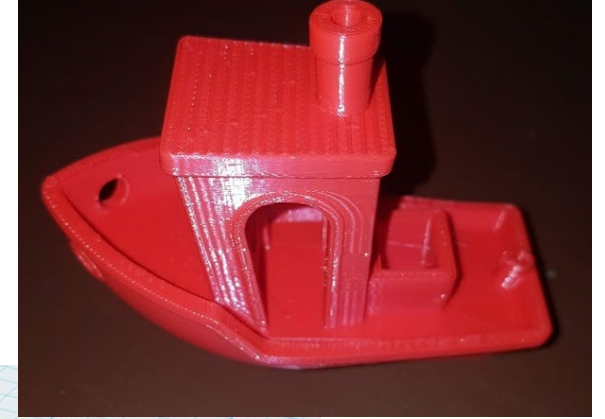


123Design Tutorial Video



Success Criteria

- Represent a design in 3D using 123Design
- Design a plaque with your team name
- Design a box to keep your car in



Thank You

Danke

Merci

谢谢

ありがとう

Gracias

Kiitos

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