

# 15-394 Intermediate Rapid Prototyping

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# Your TAs



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# What Is This Course About?

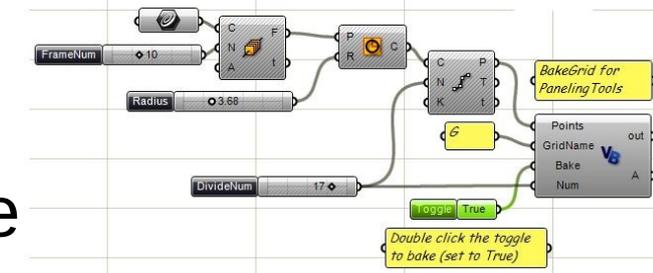
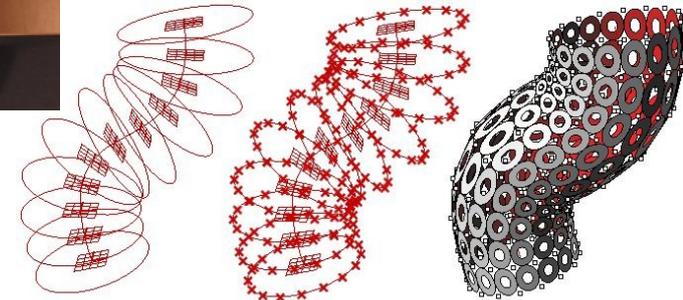
## I. Mechanism Design

- Designing with gears, linkages, cams, etc.
- Simulation in SolidWorks
- Assembly of working artifacts



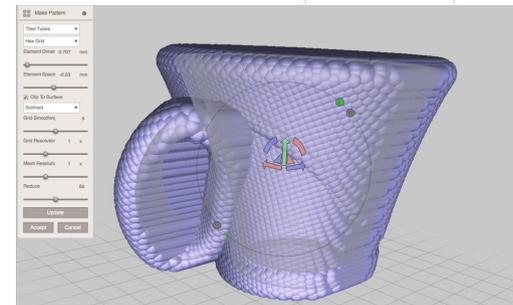
## II. Computation With Geometric Primitives

- Grasshopper



## III. Capturing and Manipulating 3D Structure

- Scanning with AutoDesk ReMake
- Meshmixer
- 3D printing

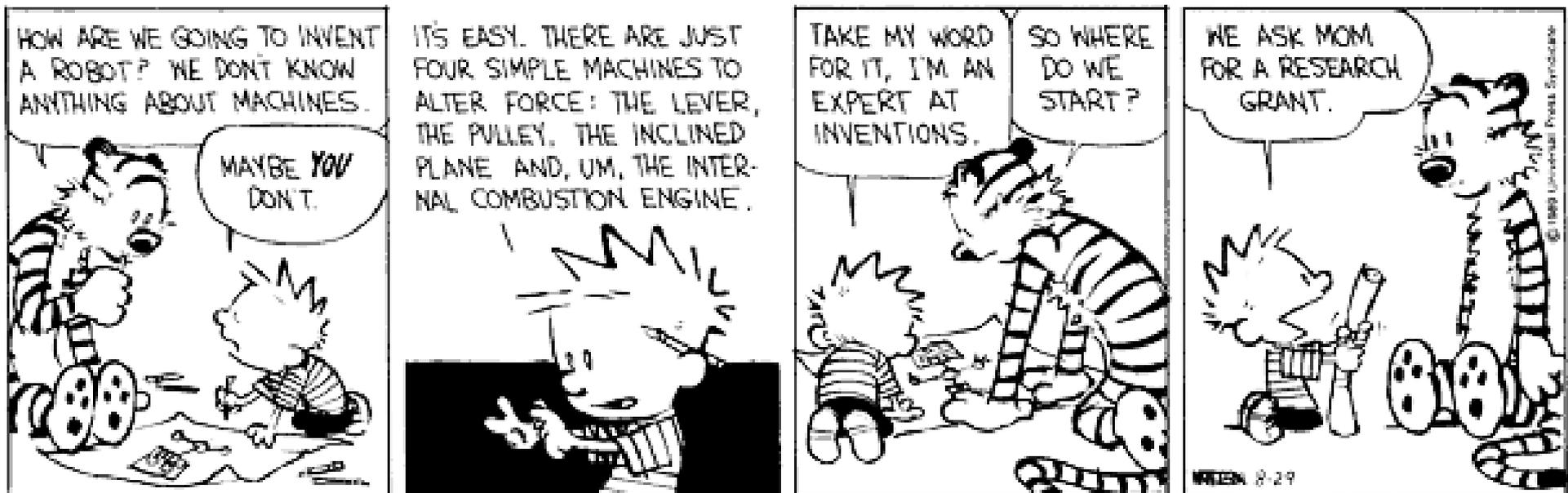


# Prerequisites

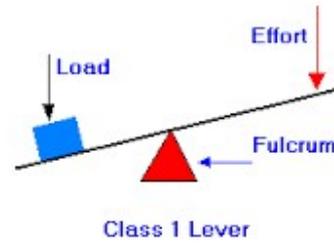
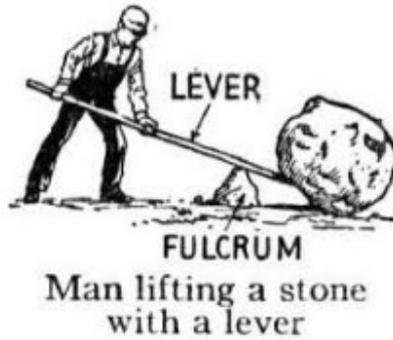
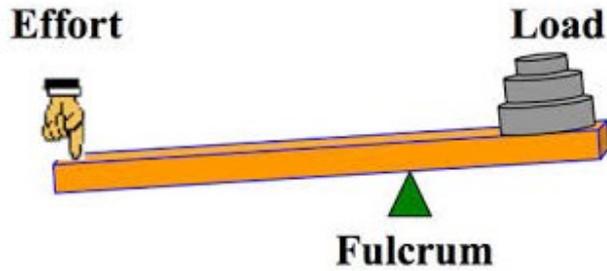
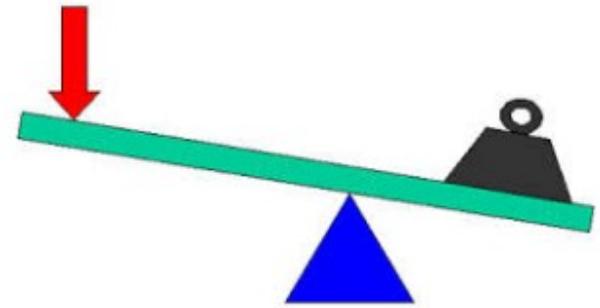
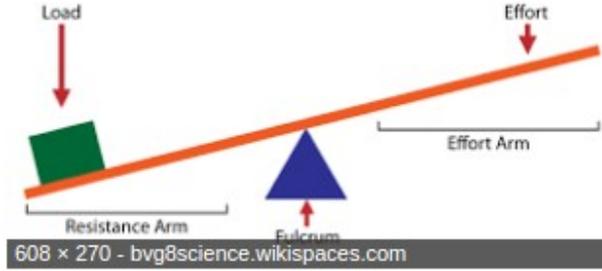
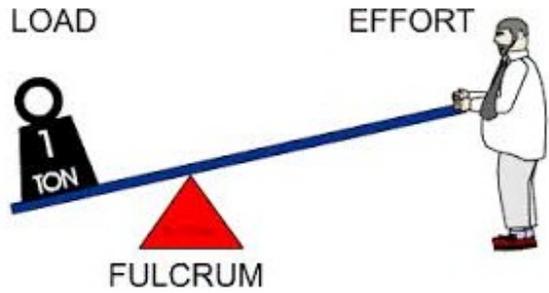
- SolidWorks (comparable to 15-294)
- Fire extinguisher training
- Rabbit Laser checkout

# Six Classical Simple Machines

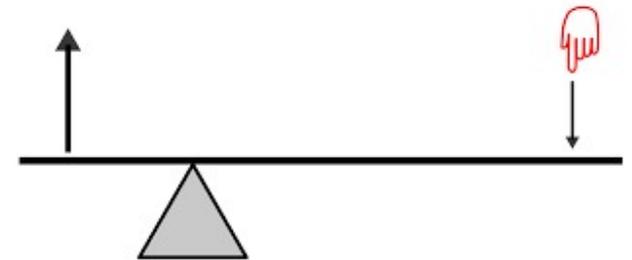
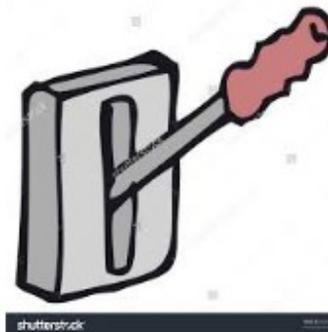
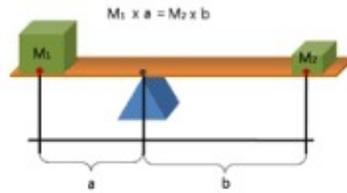
- Lever
- Wheel and axle
- Pulley
- Inclined Plane
- Wedge
- Screw



# The Lever



LEVER



# Gears Are Round Levers

