Assorted Possible Project 1 Topics
(hugely indebted to Michelle LeMasurier’s PRIMUS XVI:4 article)

- Memorization/learning curves
- Mold growth
- Logistic growth with harvesting
- Exponential and logistic population models
- Population collapse (passenger pigeons)
- Modeling oil production
  - The Van Meegeren art forgeries
  - Natural displacement of pollution from the Great Lakes
  - The spread of technological innovations
  - Homicide and Newton’s Law of Cooling
  - The brachistochrone problem
  - An atomic waste disposal problem
  - Drug absorption: dose versus overdose
  - Water heating, water cooling, and energy savings
  - Rocket flight: the multistage/orbital speed connection
  - The national debt, government spending, and economic control
  - Chemical kinetics
  - Synchronous fireflies
  - Radioactive decay
  - Modeling motion in a gravitational field
  - Escaping the earth’s gravitational field