Concepts I
Water timer dissection

Thursday 4th Week

Introduction

- Laboratory exercise
  - Work in teams of 3 (*assigned not chosen*)
  - Perform partial disassembly of a water timer
  - Do not remove gears!
  - Will reassemble before end of class period

- Goal to prepare a formal report
  - Due next Thursday
What is a water timer

The water timers you are to dissect are used to regulate water flow to lawn sprinklers

Report Content

- Abstract
  - Executive summary – 1 paragraph containing 4 to 5 sentences
  - Summarizes motivation, procedure and discovery
- Introduction
  - 1 to 2 pages
  - History
  - Motivation for work
  - Reviews theory
  - Outlines contents of report
Report Content

- Assembly Drawings of The Mechanism
  - Assembly drawing
  - Subassembly of gear train
  - Detailed drawings of key components (see grade sheet)
  - At least 40% of drawings must be from CAD

- Description of Mechanism
  - Using part numbers and names used in assembly drawing describe parts function, why is it necessary etc.

- Discussion
  - Questions from the assignment sheet.
    - write question out then provide complete answer in homework style format

---

Report Content

- All report must be typed!!
- Team evaluation
  - Completed by the elected team leader
  - Leader completes the team member evaluation on the grade sheet
  - Leaders will provide a typed sheet that lists each persons task responsibilities and is signed by each member including the leader
- Every one must attend Monday lecture from 10-11 in 309 for peer review. The session will focus on the abstract, introduction, and description sections.
- Reports are due start of lab next Thursday