* Assemble your **Howell Engine Parts**
  + It is only required to assemble one rocker arm set.
  + You will have to use the rigid to flexible feature to allow subassemblies to move.
  + Take screen captures of several steps along the way
* Begin modeling parts for your **sub-assembly mini-project**
  + Create Custom LEGO parts in LEGODrawingPackage**Part1**.pdf
* Create three **cutter/holder assemblies**
  + Use Cutter and holder design tables to make base cutter and holder part files
  + Make three credible cutter/holder assemblies from design tables & base parts
  + Save isometrics of your three cutter/holder assemblies

# Deliverables:

**Save a single word document in your personal folder under ‘Submitted Problem Sets’ with the following:**

* **Create Word document for grading** including:
  + Howell Engine assembly construction (pictures and documentation)
  + Screen captures of LEGO parts
  + Pictures of your three cutter and holder assemblies
  + Summary of things you learned while completing this hw assignment
* **In the Word document** answer the following questions:
  + In assembling your **Howell Engine Parts**, how do you change the orientation of an offset mate?
  + What part/assembly conditions need to exist to motivate design table creation?
  + What assumptions were necessary to make your custom LEGO parts and how could these have been simplified?