* 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?