

As you begin working on your syringe-change project, here are some steps that may help you get started.

1. Pick whether you will use a Motoman robot or not.
2. Generate at least three different approaches to driving the syringe piston to dispense fluid.
3. Generate at least three different approaches to switching syringes in and out of a syringe pump.
4. Analyze the compatibility of your syringe switching approaches with your syringe pump approaches.
5. Analyze these approaches from a hygienic standpoint.

You may have each team member work on generating one approach to each problem, have some team members come up with multiple approaches to one problem while the others work on the other problem, or whatever organizational method appeals to your team.

It may be helpful to have one team member keep records of the notes and ideas discussed, and keep the sketches (or photocopies of them) in a binder (or scanned and in a shared folder) for reference.

**Turn in:** scan your notes/sketches and email to me by Friday afternoon (Renee can scan for you). Put your team name in the subject and in the attachment file name.

**COLLOQUIUM TOMORROW! 3:00PM - Engineer from GE talking about 3d printing metal.**