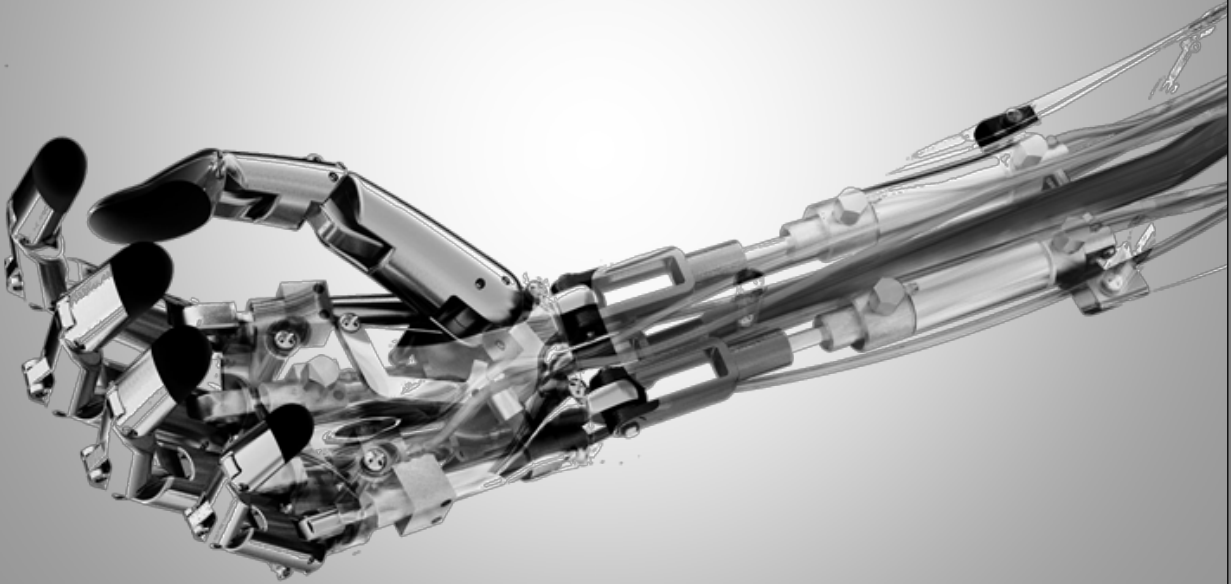


GRADE 8 SCIENCE

UNIT 5: HYDRAULIC SYSTEM DESIGN



Tool Safety

To complete this project you will be using a variety of tools. It is important that you become familiar with these tools, and the safety precautions associated with each of them.

- Hammer
- Screw Driver
- File
- Exacto Knife
- Dolphin Cutter
- Mitre Saw
- Scroll Saw
- Sand Paper
- Palm Sander
- Hand Drill
- Power Drill
- Hot Glue Gun

We will spend the first half of today's lesson discussing and demonstrating the proper use and care of these tools. When you begin your build, and you need to use the tool for the first time, you will need to get a refresher at that time, so that we can all make sure we are safe.

Please join me at the back, so that we may discuss these tools.



Tool Safety

If you don't know - ASK!



Tool Safety

With each tool there will be a safety reminder sheet. When you take the tool, you are also to obtain a copy of the sheet and take it with you and keep it at your work station. When you return the tool, you are to also return the safety reminder sheet. Here are a few examples of what the sheets will look like:

<p>SCROLL SAW SAFETY</p> <ul style="list-style-type: none"> Do not use scroll saw unless you have been trained. Do not use scroll saw unless you are wearing safety glasses. Do not use scroll saw unless you are wearing a dust mask. Do not use scroll saw unless you are wearing a hearing protector. Do not use scroll saw unless you are wearing a fire extinguisher. Do not use scroll saw unless you are wearing a fire blanket. Do not use scroll saw unless you are wearing a fire extinguisher. Do not use scroll saw unless you are wearing a fire blanket. Do not use scroll saw unless you are wearing a fire extinguisher. Do not use scroll saw unless you are wearing a fire blanket. 	<p>GLUE GUN SAFETY</p> <ul style="list-style-type: none"> Do not use glue gun unless you have been trained. Do not use glue gun unless you are wearing safety glasses. Do not use glue gun unless you are wearing a dust mask. Do not use glue gun unless you are wearing a hearing protector. Do not use glue gun unless you are wearing a fire extinguisher. Do not use glue gun unless you are wearing a fire blanket. Do not use glue gun unless you are wearing a fire extinguisher. Do not use glue gun unless you are wearing a fire blanket. Do not use glue gun unless you are wearing a fire extinguisher. Do not use glue gun unless you are wearing a fire blanket. 	<p>CORDLESS KROME SAFETY</p> <ul style="list-style-type: none"> Do not use cordless krome unless you have been trained. Do not use cordless krome unless you are wearing safety glasses. Do not use cordless krome unless you are wearing a dust mask. Do not use cordless krome unless you are wearing a hearing protector. Do not use cordless krome unless you are wearing a fire extinguisher. Do not use cordless krome unless you are wearing a fire blanket. Do not use cordless krome unless you are wearing a fire extinguisher. Do not use cordless krome unless you are wearing a fire blanket. Do not use cordless krome unless you are wearing a fire extinguisher. Do not use cordless krome unless you are wearing a fire blanket. 	<p>DOLPHIN CUTTER SAFETY</p> <ul style="list-style-type: none"> Do not use dolphin cutter unless you have been trained. Do not use dolphin cutter unless you are wearing safety glasses. Do not use dolphin cutter unless you are wearing a dust mask. Do not use dolphin cutter unless you are wearing a hearing protector. Do not use dolphin cutter unless you are wearing a fire extinguisher. Do not use dolphin cutter unless you are wearing a fire blanket. Do not use dolphin cutter unless you are wearing a fire extinguisher. Do not use dolphin cutter unless you are wearing a fire blanket. Do not use dolphin cutter unless you are wearing a fire extinguisher. Do not use dolphin cutter unless you are wearing a fire blanket.
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*A copy of all of these will be put online if you would like to review them.

Remember:

- Always wear your safety glasses, even when it is not you doing the work.
- Always wear closed toed shoes - no sandals to be worn at any time.
- Long hair is always tied back, in a bun or braided if past shoulders.
- Only one person uses any one tool at a time. Help can be given verbally, but not physically.
- If you don't know what to do ASK.



Design Ideas

You may use the remaining time to discuss design ideas with your group. By the end of the period I would like you to decide on what your "robot" will accomplish. That will allow you to spend some time drafting up ideas on how to build it, before coming in next period. **Next period you should be working on your draft drawings.**



I will be calling each group next class to discuss the task you have chosen, for which you will be designing your "robot." If you have not made your decision by then, I will be making it for you.

Please keep the timeline in mind. Please be sure to constantly reference the evaluation criteria.

Attachments

5-2 Safety Signs.pdf