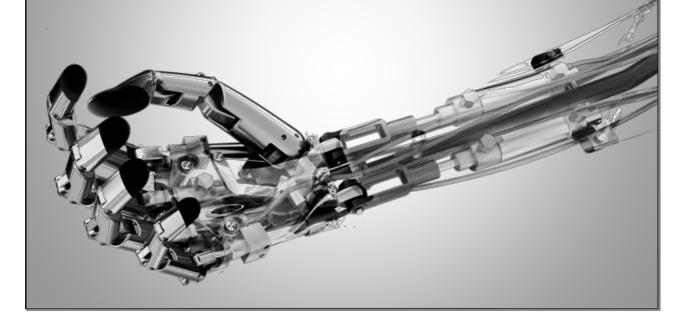
GRADE 8 SCIENCE UNIT 5: HYDRAULIC SYSTEM DESIGN



Project Groups

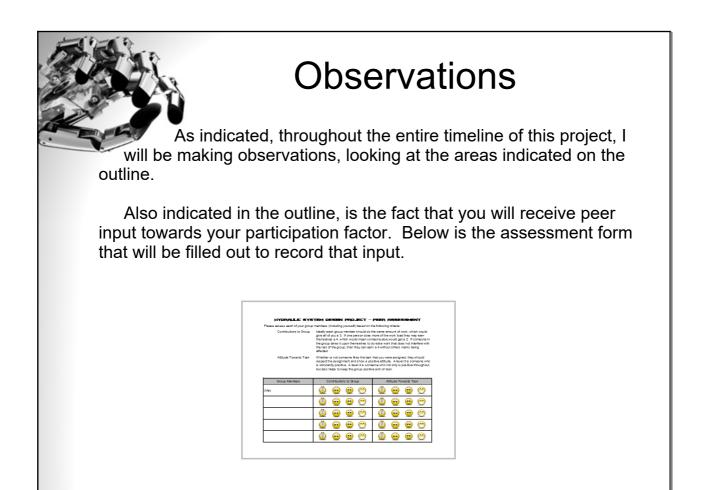
Prior to discussing the hydraulic system design project you will be put into your groups. Please re-arrange yourselves to sit in your assigned groups. These will be your seats for the remainder of the year.

Put groups here

Project Outline

This project will be, by far, the most in-depth science project you have completed to date. We will take a large portion of this period to discuss the outline, noting details about what you will aim to accomplish, what you will be producing, what you will submit, the timeline of the project, and how you will be evaluated. Each group will get a copy of the document we are about to review, to be kept in a project duo-tang. All information for this will also be posted online.

If you have questions, as I read through the outline, please write them down, as I may answer them as I proceed. If they are not answered by the time I am done, I will allow for questions to be posed then.





Paper Work

Although you are welcome to complete work digitally for this project, each group will also be required to maintain a duo-tang with some specific paperwork. This includes:

- Project Outline
- Linkage Examples
- Initial Design Concept Drawings

Any other work you complete can also be stored in this duo-tang.

At this point can one member of your group please come pick up your duo-tang.

A copy of all of these files may also be found on the project webpage.

Examples

In past years there have been several successful builds, with students coming up with some really creative ideas. The images that I have linked here will not only show you some ideas of the type of system you can build, but it will also show some good examples of how you can use the materials provided to produce the desired movements.



I will put a link to these images on the webpage.

Design Ideas

In the criteria in mentioned that your group needs to come up with a way to present your information. There are several ways you could do it. Below are two examples of presentations groups have made in previous years (the videos you are watching are not, necessarily, all of the work that was presented, but a portion to give you some ideas.)





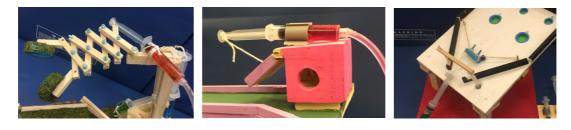
Design Ideas

The first stage to this project is to brainstorm ideas for your system. You may use the remainder of this period to discuss the project with your group.

You may wish to spend this time reviewing the outline, making sure that each member of your group fully understands the task.

I might also recommend that you look at the example linkages pages, giving you some ideas as to how you can create movement.

Don't forget that you will be filling out a weekly calendar, indicating what you have accomplished each week.



Group Peer Assessment Sheets.pdf 5-1 Outline.pdf Bottle Cap Remover Commercial.mov Hydraulic Firetruck.mov