

Hydraulics

Squeezing a fluid which has nowhere to go will create pressure, the liquid does not move so this is called **static pressure**.

In a hydraulic system you apply force to one area of a system full of liquid, the static pressure created by this moves another part of the system.

Hydraulic multiplication is the ability to trade force for distance. Pushing one piston down 10 meters with a 50N force can raise another larger piston with force 500N (10 times greater), 1 meter (10 times less).

Read pg 324-328
Do reading check on pg 328

Hydraulic Diagram

Think of something you could use a hydraulic system for (remember hydraulic multiplication). On a blank piece of paper give a brief (2-4 sentence) explanation of what your device would do then create a diagram of it. Be sure to label all parts. **Make it look awesome!**