



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

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Project Title Hydraulics: Weigh Lifters	
Objectives/Goals The objective is to determine if hydraulics is strong enough to lift heavy loads.	
Methods/Materials Materials to build a hydraulic press are purchased from local hardware stores. Liquids were used in the application to test affect of volume and viscosity of the liquid on the height the load would be lifted. Pressure gauge was used to measure the pressure in the hydraulic press. The pump was used to add more liquid in the hydraulic press.	
Results The results showed that the height of the object lifted depends on the viscosity of the liquid and the amount of liquid in the hydraulic press.	
Conclusions/Discussion Hydraulics is strong enough to lift heavy objects.	
Summary Statement My project is about Hydraulics.	
Help Received My father helped me to assemble the hydraulic pump.	