Young Peoples Workshops

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CAMPS

Hydraulic Platform Lifter

Platform lifters are cool simple machines that are used to lift platforms horizontally. This model uses the same principles as those in real situations, except you use water instead of hydraulic fluid

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Hydraulic Excavator

Excavators are big machines that are used to dig holes and move earth, and this model uses the same principles as those used in real situations, except you use water instead of hydraulic fluid.

There are many types of excavators and this one uses a first and third class lever to make the arm and shovel move. We think it provides and excellent example of how we use technology to dig things up.

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Hydraulic Scissor Lift

Scissor Lifts are cool machines that are used on building sites to lift a platform horizontally. They are commonly used to reach high places like ceilings with a steady place to work from.

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Hydraulic Cherry Picker

Widely used by power and telephone companies (and anyone who wants to get a cat out of a tree) this is an excellent way of showing levers and hydraulics.

Using a parallel linkage, the platform stays level all the way up and down. And it swivels side to side! . The nice thing about the parallel linkage is that as the platform moves up and down, the people don't fall off (definitely a nice touch!)

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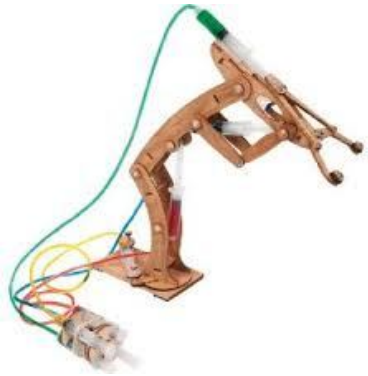
Hydraulic Robotic Arm

This robotic arm illustrates hydraulic power and mechanics. Observe how syringes, tubes, and water work together to power the parts of this robotic arm. Each control moves one of the robotic arm axes.

Get together a team and try to maneuver or move objects using this robotic arm!



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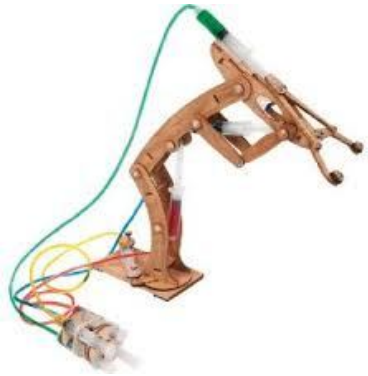

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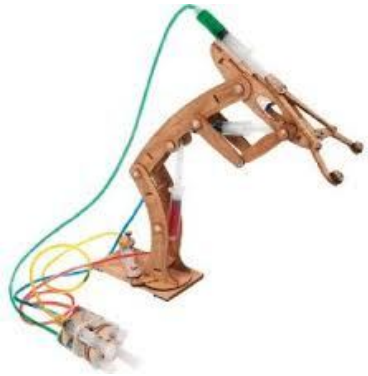

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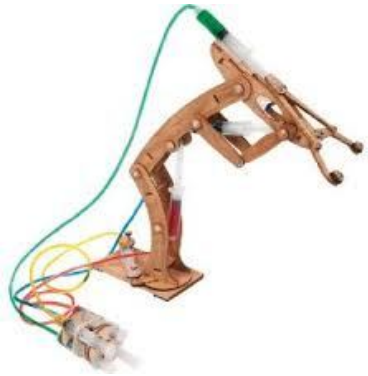

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