

Last week, we began our study of robots, hydraulics, simple machines, and Cartesian coordinates. We will learn all of these concepts with the use of our new **T-Bot II robotic arms**.

These robotic arms are made out of wood and syringes that use water to move the four parts - a swivel base, mid-arm, forearm, and grippers. These machines are truly amazing!

We will use these hydraulic machines to study and understand how simple machines join together to make a complex robot.

Math will come in handy as we learn to use a Cartesian coordinate system. Objects will be placed on a certain coordinate point based on a roll of the dice. This will introduce negative numbers and reinforce their learning of coordinates in math class. Imagine how challenging it will be to move a small block to a coordinate point with a robotic arm.

