New York State Technology Education Network Implementation and Resource Guide
Middle & High School Levels

CLASS ACTIVITY Middle School Level	PROBLEM STATEMENT	LEGO Dacta PRODUCTS
Bio-related Technology: Bio-Agriculture Controlled Environment	*"Design and model environments that will control plant growth, charting the influences of temperature from a minimum to maximum range."*	#942, #943 #944, #945 Control Lab Technology Investigations and Inventions, Greenhouse activity Pgs 1.1 - 1.6
Computer Control: Introductory Activity 2	*"Input a simple procedure that will allow the fan to be controlled by the touch sensor."*	#942, #943 #944, #945 Control Lab Quick Start Guide Pgs. 14 - 19
Computer Control: Introductory Activity 4	*"Input a simple procedure that will allow the fan to be controlled by the temperature sensor."*	#942, #943 #944, #945 Control Lab Quick Start Guide Pgs. 20 - 22
Computer Control: Smart Dwelling, Days 2-20	*"Design, build and test the performance of a security system for a smart dwelling. The security system will:* *- monitor one or more inputs* *- alert the occupant* *- alert the proper agency* *- use an ergonomically designed control panel to monitor and display system information."*	#9707, #9708, #9710 and temperature sensor #9889
Computer Control: People Mover, Days 3-18	*"Design and build a computer controlled people moving model that uses data from sensory inputs, processes data, and continuously control the system's output."*	#942, #943, #944, #945 with special procedures developed by the NYSTEN team.
High School Level		
Computer Control: Simulating Environments, Days 3-18	*"Design a device that will synchronize videotape input with mechanical motion to provide the sensations of "being there" to be used as entertainment or training for the user, e.g. skateboard, aircraft cockpit."*	#942, #943 #944, #945 with special procedures developed by the NYSTEN team.
Computer Control: Parking Lot System, Days 3-18	*"Design a system that sorts automobile traffic to parking spots in a parking lot(s) and monitors empty parking spaces. The solution should use data from a variety of sensor inputs and provide an output that will direct traffic flow."*	#942, #943 #944, #945 with special procedures developed by the NYSTEN team.