Arduino Accessory Kit for PY371

See http://edf.bu.edu/PY371 for live version with links. Updated 2013-01-14.

Arduino Board	ASSOCIATION TO SECURITION OF THE PROPERTY OF T	
USB Cable		Connect Arduino to your laptop computer
Small servomotor Sparkfun product page		Black - ground Red - +5V White - control (PWM) See Arduino Examples -> Servo
Light Sensor TEPT4400		Longer lead - GND Shorter lead - 10k resistor to +5V Analog input Note: this has longer leads than the infrared LED
Infrared Remote Receiver TSOP39338	1 2 3 19026	1 - Output 2 - +5V 3 - GND

Infrared LED OP165A Thermistor		Long lead - positive Short lead - negative Need current-limit resistor Note: this has shorter leads than the light sensor 10k ohms at 25 deg C
(temperature sensor) NTCLE100E3103JB0		Non-polarized
Triple Axis Accelerometer uses MMA7361L chip		Sparkfun data page NOTE: Requires 3.3V power (you can get it from the Arduino board).
RGB Led - common cathode YSL-R596CR4G3B5 W-F12 Use programmable ones instead?		Long lead is #2 1 - R 2 - GND 3 - G 4 - B
Force Sensitive Resistor <u>User Guide</u>	means .	Open circuit with no force Resistance drops with applied force
Serial DAC MCP4921		SPI Serial Interface

(1) Eastern Air Devices stepping motor		
(4) IRF520 N-Channel power MOSFET transistors	D = DRAIN G = GATE S = SOURCE www.electronicecircuits.com	
(4) 1N4001 diodes		
(2) 20 ohm 10W power resistors		May look different, but much larger than a "normal" 1/4W resistor.
(1) power supply capable of delivering 12V at ~ 1A		