## Conceptual

	an use the Arduino microcontroller to read analog input that can be used to control an analog
	Read tutorial on <u>reading analog signals</u> .  Determine how to make a voltage divider using a variable resistor and your Arduinio.
Basic	c Make
	Design a circuit that reads an analog input and outputs an analog signal based on the input.  Make your circuit  Make a program to vary the load voltage from the signal measured by the analog input.  O A useful function is "map()"
Adva	nced/Extended Make
	Control multiple loads.  Measure various inputs  Explore power options:  USB  External power pack  Duplicate diagrams using Fritzing
Equip	Computer with access to Fritzing and Arduino
	Circuit components: Arduino and misc electronic parts
Objed	ctive
Physic	s Concepts Voltage divider Analog to Digital  O Resolution and bits Digital to Analog O Resolution and bits
	mental analysis Circuit design – voltage divider clogy Concepts Schematic Symbols Programming Syntax – analog read

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