Field Trip # 38	**Using a Raspberry Pi to Light an LED**
Developed by:	Keith Lynn
Subject:	Raspberry Pi
Short description:	Students learn how to assemble items such as LEDs and resistors on a breadboard and to use the Raspberry Pi and Python to control the LED..
Educational Level:	9th – 12th Grade
Field trip type:	Workshop
Educational Outcomes:	Students will be able to: • Understand how to place items on a breadboard • Connect to a Raspberry Pi and start IDLE to create a Python program • Write and execute a Python program • Turn an LED on and off with a Python program • Make an LED blink using a Python program
Content:	Each student uses a laptop with a special program installed that allows them to view the Desktop of a Raspberry Pi. They are shown how to create and write a Python program that will control the pins of a Raspberry Pi.
Notes to instructor:	