Lesson Plan - Week Feb 18, 2019

DATE	*TOPIC*	*INSTRUCTOR*
2/18/2019	CIRCUIT FLOW	MS. KRISTY

OVERVIEW/PURPOSE

EXPLORE CURRENT FLOW OF ELECTRONS

STANDARDS ADDRESSED

SERIES AND PARALLEL CIRCUITS

Objectives: (Skills/information that will be learned)	➢ Learn about current flow through circuits ➢ Understand the difference between series and parallel circuits ➢ Create the circuits from a battery and lightbulb	*MATERIALS NEEDED:* ➢ 9V battery ➢ Tape ➢ Aluminum foil ➢ Flashlight bulbs
Information: (Demonstration or lesson details)	In a series circuit, the parts of the circuit are in a row, one after the other so current flows through them. Parallel circuits are set up so that the current has an independent path to take through each piece. Current, which is the flow of electrons in a circuit, can be carried through wires, barriers, and any functional pieces of circuits, like lights.	
Activity: (Activity/demonstration to reinforce lesson)	The instructor will go over the concept of electrons flow through circuits and guide students in making a series circuits and parallel circuits so they can explore the difference between the two circuits.	
Verification: (Students understand the lesson objectives)	1. Where is the current flowing through? 2. Which circuits produce brighter lights?	
Summary: (Expected Observations)	Circuits carry electric current when they are in closed loop and can act differently depending on the physical set up of the circuit (series or parallel). The bulbs in parallel circuit is brighter than the bulbs in series circuit because in parallel, each independent path have the same voltage drop.	Additional Notes: Ohm's Law