

Grade: 9	Subject(s): Science	Planning Team:
Organizing Idea: Energy: Understandings of energy and forces are used to explain physical changes in the natural world.		
	Curricular Language	
Our Guiding Unit/Essential Question(s):	How is energy transfer understood through electric current?	
Learning Outcome: Students examine electric current and conservation of energy (chunk 2)	Understandings: • Energy can be transferred by a current within a circuit. Knowledge: • Components of circuits can be arranged in series or in parallel and can be represented with schematic diagrams that use component symbols. • In a series circuit, current: • flows along a single path • is the same at any point in the circuit • In a parallel circuit: • current flows along multiple paths • the total current is equal to the sum of the current in the branches • not every branch needs to be closed for the circuit to function • voltage in each branch is the same Processes & Skills: • Design schematic diagrams of series and parallel circuits. • Compare the characteristics of series and parallel circuits. • Troubleshoot series and parallel circuits.	
Literacy Progressions		
Numeracy Progressions		
Competencies/Career Education Progressions		