



**DEPARTMENT OF EDUCATION  
CURRICULUM AND INSTRUCTION DIVISION  
CAREER AND TECHNICAL EDUCATION SECTION**



**TECHNICAL STUDIES UNIT  
JUNKANOO INTEGRATION**

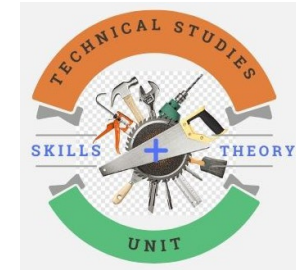
**SUBJECT: ELECTRICAL TECHNOLOGY**

**GRADE: 10**

<b>Pacing Guide Week #</b>	<b>Topic</b>	<b>Objectives</b>	<b>Integration Strategy</b>	<b>Resources</b>
Week #1 January 6-9, 2025	<b>Circuit Configuration</b> a. Series Circuits	<ul style="list-style-type: none"> <li>Define a series circuit</li> </ul>	<ul style="list-style-type: none"> <li>Identify how a series circuit is used in Junkanoo to create light on a banner.</li> </ul>	<ul style="list-style-type: none"> <li>Create a series circuit</li> </ul>
Week #2 January 13-17, 2025		<ul style="list-style-type: none"> <li>Identify the physical characteristics of a series circuit.</li> </ul>		
Week #3 January 20-24, 2025		<ul style="list-style-type: none"> <li>List the advantages of series circuits.</li> </ul>		
Week #4 January 27-31, 2025		<ul style="list-style-type: none"> <li>List the disadvantages of series circuits</li> </ul>		



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**SUBJECT: ELECTRICAL TECHNOLOGY**

**GRADE: 11**

<b>Pacing Guide Week #</b>	<b>Topic</b>	<b>Objectives</b>	<b>Integration Strategy</b>	<b>Resources</b>
Week #1 January 6-9, 2025	<b>Control Devices</b> a. Types of Control Devices b. Application of Control Devices	<ul style="list-style-type: none"> <li>Define control device</li> <li>List types of control devices</li> </ul>	<ul style="list-style-type: none"> <li>Identify control devices that may be used in the creation of a banner, to control illumination.</li> </ul>	<ul style="list-style-type: none"> <li>Wire a variety of circuits from pictorial/print diagrams or text. Project where students are able to create their own circuits</li> </ul>
Week #2 January 13-17, 2025				
Week #3 January 20-24, 2025	<b>Wiring Methods &amp; Installations</b> a. Wiring Diagrams b. Light switches	<ul style="list-style-type: none"> <li>Identify types of wiring methods</li> <li>Interpret print and pictorial diagrams</li> <li>Complete wiring on pictorial drawings</li> </ul>	<ul style="list-style-type: none"> <li>Create a wire diagram to show how the lighting on a banner could be wired.</li> </ul>	<ul style="list-style-type: none"> <li>Build lighting circuits with one or several control devices in the circuit. (Students may create their own circuits using the devices and present to the class)</li> </ul>
Week #4 January 27-31, 2025				



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**SUBJECT: ELECTRICAL TECHNOLOGY**

**GRADE: 12**

<b>Pacing Guide Week #</b>	<b>Topic</b>	<b>Objectives</b>	<b>Integration Strategy</b>	<b>Resources</b>
Week #1 January 6-9, 2025	<b>Power Station, Transmission and Distribution</b> a. Power Generation b. Single Phase Systems (Introduction to 3-Phase) c. Transmission and distribution d. Domestic, Commercial, and Industrial	<ul style="list-style-type: none"> <li>• State the principal source of primary energy used for the generation of electricity</li> <li>• Describe briefly how electricity is generated               <ul style="list-style-type: none"> <li>○ Diesel/steam generators</li> <li>○ Solar</li> <li>○ Wind</li> <li>○ Hydro-power</li> </ul> </li> <li>• Explain the transmission and distribution of electricity from the power plant to the consumer</li> <li>• Draw a diagram depicting the power system from generation to consumer</li> </ul>	<ul style="list-style-type: none"> <li>• Students can identify the power needed to operate a Junkanoo shack.</li> <li>• List alternate sources of power used in the shacks and how the power is generated.</li> </ul>	Students can identify features of transmission and service lines along the Junkanoo route roadside and entering buildings
Week #2 January 13-17, 2025				
Week #3 January 20-24, 2025				
Week #4 January 27-31, 2025				

		<ul style="list-style-type: none"><li>○ Power transformers</li><li>○ Transmission lines (up to 132kV)</li><li>○ Substations and load centres</li><li>○ Distribution lines and transformers</li><li>○ Low tension lines</li></ul> Service lines to consumers (120V/60Hz)		
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