

# AP PHYSICS

## Electric Currents and Circuits

### Calendar

DAY	CLASS	HOMEWORK
1	<ul style="list-style-type: none"> <li>• Review Test</li> <li>• Lab – Introduction to Electric Circuits and Schematic Diagrams</li> <li>• Lesson on Current and Ohm’s Law</li> </ul>	<ol style="list-style-type: none"> <li>1. Read 18.1-18.3, pages 493-500</li> <li>2. Questions, page 514: #1-5</li> <li>3. Problems, page 515: #1-2, 4 8-9, 11</li> </ol>
2	<ul style="list-style-type: none"> <li>• Lab – Effect of Size on Resistance of a Wire</li> <li>• Lesson on Resistivity</li> <li>• Lesson on Electric Power</li> <li>• Lesson on Household Power</li> </ul>	<ol style="list-style-type: none"> <li>1. Read 18.4-18.6, pages 500-506 Questions, page 515: #6-7, 10-15, 18</li> <li>2. Problems, pages 516-517: #13, 16, 27, 33, 37</li> </ol>
3	<ul style="list-style-type: none"> <li>• Lesson on AC (Optional)</li> <li>• Lesson on Superconductivity</li> <li>• Lab – EMF and Terminal Voltage</li> </ul>	<ol style="list-style-type: none"> <li>1. Read 18.9, page 510</li> <li>2. Read 19.1, pages 520-522</li> <li>3. Problems, page 547 : #3-4</li> </ol>
4	<ul style="list-style-type: none"> <li>• Lab - Paths of Resistance in Simple, Series, and Parallel Circuits</li> </ul>	<ol style="list-style-type: none"> <li>1. Read 19.2, pages 522-528</li> <li>2. Questions, pages 545-546: #1-5</li> <li>3. Problems, page 547 : #5, 7</li> <li>4. Finish Lab</li> </ol>
5	<ul style="list-style-type: none"> <li>• Lesson on Simple, Series, and Parallel Circuits</li> <li>• Problems</li> <li>• Lesson on Kirchhoff’s Rules</li> </ul>	<ol style="list-style-type: none"> <li>1. Read 19.3, pages 528-531</li> <li>2. Read 19.5, pages 533-535</li> <li>3. Questions, page 546: #6-9</li> <li>4. Problems, pages 547-548: #11, 13-14, 17, 19, 23-24, 27, 29</li> </ol>
6	<ul style="list-style-type: none"> <li>• Lesson on Capacitors in Series and Parallel</li> <li>• RC Circuits</li> <li>• Lab – RC Circuits (optional)</li> </ul>	<ol style="list-style-type: none"> <li>1. Read 19.6-19.7. pages 535-541</li> <li>2. Questions, page 546: #15, 19</li> <li>3. Problems, page 490: #41, 45</li> <li>4. Study for <b>Test</b></li> </ol>
7	<ul style="list-style-type: none"> <li>• Review</li> <li>• <b>Test on Electric Currents and Circuits</b></li> </ul>	