

Electrical Applications - Daily Unit Outline

SNC 1P

Day	Topic	Assignment	Topic
1	Different Sources of Energy Can Be Converted into Electrical Energy	Unit 3 Anticipation Guide Read p. 244-247 LC p. 247 Q# 1-4	4.1
2	Energy Sources Have Advantages and Disadvantages Video: Eyes of Nye (25 min) “ <i>Nuclear Energy</i> ”	Read p. 248 LC p. 248 Q# 1-3	4.1
3	Activity 4.2: Assess the Sources (<i>Computer Lab</i>)	Complete Activity Worksheet	4.1
4	Negative Charges are Electrons, and Positive Charges are Protons Video: Bill Nye (25 min) “ <i>Static Electricity</i> ”	Read p. 252-255 LC p. 255 Q# 1-3	4.2
5	Opposite Charges Attract Each Other, and Like Charges Repel Each Other Activity 4.6: Rubbing and Static Electricity	Read p. 256-257 LC p. 257 Q# 1-3	4.2
6	Negative Charges Can Move Through Some Materials But Not Others Case Study: Conductors and Insulators	Read p. 258 LC p. 258 Q# 1-3	4.2
7	Objects Can Become Charges by Contact and by Induction Activity 4.8: Charging an Electroscope	Read p. 266-267 LC p. 267 Q# 1-2	4.3
8	Charge Objects Can Be Discharged by Sparking and by Grounding	Read p. 268-269 LC p. 269 Q# 1-3	4.3
9	A Constant Source of Electrical Energy can drive a Steady Current (flow of charges)	Read p. 276-277 LC p. 277 Q# 1-4	4.4
10	An Electric Current Carries Energy from the Source to an Electrical Device (a load) that Converts it to a Useful Form Video: Bill Nye (25 min) “ <i>Current Electricity</i> ”	Read p. 278-279 LC p. 279 Q# 1-3	4.4
11	A Source, Load, and Connecting Wires Form a Simple Circuit Activity: Building a Simple Circuit	Read p. 280-281 LC p. 281 Q# 1-3	4.4
12	Meters Can Measure Potential Difference and Current Potential Difference and Resistance Affect Current	Read p. 282-283 LC p. 283 Q# 1-3	4.4
13	Investigation 4E: Observing the Effects of Resistance on Current	Complete Lab Worksheet	4.4
14	Series and Parallel Circuits	Read p. 294-295 LC p. 295 Q# 1-2	4.5
15	Potential Difference across Series and Parallel Circuits	Read p. 296-297 LC p. 297 Q# 1-4	4.5
16	Investigation 4G/H: Observing Series and Parallel Circuits	Complete Lab Worksheet	4.5
17	What Features Make an Electrical Circuit Practical and Safe?	Read p. 304-311 LC p. 307 Q# 1-4, p. 309 Q# 1-3, & p. 311 Q# 1-3	4.6
18	How Can We Conserve Electrical Energy at Home?	Read p. 314-319 LC p. 317 Q# 1-3, p. 319 Q# 1-2	4.7
19	Unit Review	Study for Unit Test #3	
20	Unit Test		