PACING GUIDE

GRADES: 10-12

COURSE: i-STEM 2 -- Unit 6 -- Power: Electrical Systems

MONTH	UNIT	CTE STEM STANDARDS 9.3 ST-ET	ASSESSMENTS What evidence (formative/summative) is utilized to establish that the content, standards, & skills have been mastered?	CONTENT Topics being covered? What do students need to know? (nouns)	ACTIVITIES Integration of Technology & Career Ready Practices
November	6	1, 2	Electricity Vocab Quiz, Summative	Electricity: General Terminology	2, 3, 6, 8, 9, 10
November	6	1-3	Electrical Systems Quiz, Summative	Electrical Systems: Terminology & Safety	2, 3, 6, 8, 9, 10
November	6	2, 5	Solving for Volts Amps & Ohms, Summative	Ohms Law & Applications	2, 3, 6, 8, 9, 10
December	6	2, 5	Circuit Performance, Summative	Circuit Prototype Operations	2, 3, 6, 8, 9, 10
December	6	1 -5	Unit: MPA, Summative	Electrical System Presentation	2, 3, 6, 8, 9, 10
Nov-Dec	6	1-6	Electrical Packet, Summative	Design Process Reporting Methods	1-12
Nov-Dec	6	1 - 6	Unit: Lab Activities, Formative	Electrical Circuit Design & Assembly	1-12
Nov-Dec	6	2	Unit: Homework, Formative	Chapter Vocab & Questions	1, 2, 4, 8, 11
Nov-Dec	6	1 -6	Unit: Classwork, Formative	Productive use of Lab Time	1, 2, 4, 8, 11
Nov-Dec	6	2	Unit: Interpersonal Communication, Formative	Individual & Design Team Consultations	1 -12

- 9.3.ST-ET.1 Use STEM concepts and processes to solve problems involving design and/or production.
- 9.3.ST-ET.2 Display and communicate STEM information.
- 9.3.ST-ET.3 Apply processes and concepts for the use of technological tools in STEM.
- 9.3.ST-ET.4 Apply the elements of the design process.
- 9.3.ST-ET.5 Apply the knowledge learned in STEM to solve problems.
- 9.3.ST-ET.6 Apply the knowledge learned in the study of STEM to provide solutions to human and societal problems in an ethical and legal manner.
- CRP 01. Act as a responsible and contributing citizen and employee.
- CRP 02. Apply appropriate academic and technical skills.
- CRP 04. Communicate clearly and effectively and with reason.
- CRP 05. Consider the environmental, social and economic impacts of decisions.
- CRP 06. Demonstrate creativity and innovation.
- CRP 07. Employ valid and reliable research strategies.
- CRP 08. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP 09. Model integrity, ethical leadership and effective management.
- CRP 10. Plan education and career paths aligned to personal goals.
- CRP 11. Use technology to enhance productivity.
- CRP 12. Work productively in teams while using cultural global competence.