

# PACING GUIDE

**COURSE:** i-STEM 2 -- Unit 10 -- Transportation: Marine

**GRADES:** 10-12

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? ( <i>nouns</i> )	ACTIVITIES Integration of Technology & Career Ready Practices
May	10	1, 2	Marine Terminology Quiz, Summative	Water: Properties & Waterways	2, 3, 6, 8, 9, 10
May	10	1 -3	Marine Math Quiz, Summative	Water Vehicles: Displacement and Ballast	2, 3, 6, 8, 9, 10
June	10	2, 5	Vessel Quiz, Summative	Marine Vessel Technology	2, 3, 6, 8, 9, 10
June	10	2, 5	Vessel Performance, Summative	Hull & ROV Prototype Operations	2, 3, 6, 8, 9, 10
June	10	1 -5	Unit: MPA, Summative	ROV Presentation	2, 3, 6, 8, 9, 10
May-June	10	1-6	ENB Entries, Summative	Design Process Reporting Methods	1-12
May-June	10	1 - 6	Unit: Lab Activities, Formative	Hull & Marine ROV Design & Assembly	1-12
May-June	10	2	Unit: Homework, Formative	Chapter Vocab & Questions	1, 2, 4, 8, 11
May-June	10	1 -6	Unit: Classwork, Formative	Productive use of Lab Time	1, 2, 4, 8, 11
May-June	10	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.