

2021-2022 STEAM and CTE Capstone Project Proposal Form

Name	Date
Gulf Shores High School ST	TEAM and CTE Capstone Project Proposal form. Due: October 22, 2021
1. Which Seal of Excellence a	are you interested in pursuing?
STEAM only	
CTE only	
Both CTE and STEAM	1 Seals
2. Do you meet the Seal of Ex	scellence GPA and course requirements (thus far) for item(s) checked off in #1?
Yes _/ No (circle or	ne)
3. In which class/es are you p	planning to do your Capstone Project?
4. Project Description:	
A. Project Title (this ma	ay change later as you get more involved in your project)?
	ide a brief synopsis of the background that supports your research problem and explain why this research pplicable, explain any societal impact of your research.
C. RESEARCH QUES'	TION(S), HYPOTHESIS(ES), and/or ENGINEERING GOAL(S), EXPECTED OUTCOMES:
D. Describe the followi	ng in datail (write on the back or use more pages if necessary):
	ng in detail (write on the back or use more pages if necessary): Detail all procedures and experimental design including methods for data collection. Describe only your

project. Do not include work done by a mentor or others, if applicable.

c. Data Analysis: Desc	ribe the proc	cedures you will use to analyze the data/results.
STEAM and CTE Capstone Project	Checklist	
-	•	e considered an integrated STEAM and/or CTE Capstone project
o any of the questions is No, the proje	ct will need	to be redesigned.
Criteria Question	Yes/No	Evidence/Reasoning
Does the project:		
address scientific concepts? (STEAM)		
address concepts in your chosen CTE area? (CTE)		
incorporate scientific practices? (STEAM)		
apply appropriate technologies? (STEAM)		
incorporate engineering practices? (STEAM)		
use relevant mathematical concepts and practices? (STEAM)		
incorporate the arts? (STEAM)		
integrate S, T, E, A, and M as part of one project? (STEAM)		
allow each STEAM competency to be addressed? (STEAM)		
allow for the completion of a paper, plan, product, and presentation?		
Will you be able to get all materials and/or equipment needed for your project?		

the answer

b. Risk and Safety: Identify any potential risks and safety precautions needed.

Do you have enough time to do your experiment more than once, with multiple trials, before the final due date?					
If your project requires you to travel to gather data, did you confirm that you have transportation?					
Can you find an Outside Adult Mentor? This is a requirement for all participants. This person should be knowledgeable or have experience in the area of your topic so he/she can provide guidance and feedback on your research plan/project summary. You will conduct the experiment. The role of the Adult Sponsor may include, but is not limited to: allowing you to use their facilities/equipment; giving feedback on your Research Plan/Project Summary; and providing supervision when conducting your investigation/trials.					
6. Agreements & Signatures Student: I have discussed the project ar with this project and ensure that I condito meet due dates found in the 2021-20 High School's Capstone Project, a requ	uct my experi 22 STEAM C	ment/project follow Capstone Project Tir	ving all safety proced meline document ma	lures and policies. I under y result in dismissal from	rstand that failure
Signature:					
Parent/Guardian: I have discussed the project. I understand that my role is to my child. I also understand that if my codocument, he/she will not be able to full	support and suchild does not lfill the require	upervise my child's meet the due dates rements of Gulf Sho	safety, and it is NO found in the 2021-20 res High School's So	Γ my responsibility to do 022 STEAM Capstone Pr	the project for roject Timeline
Signature:					