MODIFIED UBD LESSON PLAN

ij STEM 101

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UNIT: Teamwork and Concurrent Engineering	EXERCISE:	TIME FRAME: 1-2 hours			
T PREPARATION : Summary of "to do's" that the teacher should understand and prepare before bringing this lesson to the classroom.					
Information Each exercise will list information students should have before starting the exercise here.					
<u>Materials</u> Each exercise will list the appropriate materials needed in this section.					
Tools Each exercise will list the appropriate tools needed in this section.					
SAFETY : Summary of safety strategies in	the lesson.				
Please use this space to describe safety procedures	or highlights for this lesson.				
S1 DESIRED RESULTS:					
ESTABLISHED GOALS:	TRAN	SFER:			
Problem Solving Techniques and Applications Standards:	Articulate the advantages of teamwork;				
Teachers should use the STEM Academy Standards Correlation System available in	Describe characteristics of great teams				
the STEM Connections area of a unit to	MEANING:				
extract specific standards and insert these standards here.	UNDERSTANDINGS Students will understand that	ESSENTIAL QUESTIONS Students will keep considering			
	 Teams grow and change, the growths come in stages; Teams do not only need a good leader, but good followers as well. 	 How the group dynamic can adapt to different situations; Different ways to improve group dynamic. 			
	ACQUISITION OF KNO	OWLEDGE AND SKILL: Students will be skilled at			
	 Team attributes; Modes of team action; How teams can increase and decrease productivity. 	• Express the effects of a global marketplace; Classifying attributes and leaderships styles.			



 COURSE: Introduction to Engineering
 EXERCISE:

 UNIT: Teamwork and Concurrent Engineering
 EXERCISE:

S 2	EVIDENCE:	
	EVALUATIVE CRITERIA:	ASSESSMENT EVIDENCE:
•	Constructed Well Plane not tested Original person found Effective communication Entire team agrees Effective communication	Performance Task(s): Airplane in a Box In this exercise, students will build either a paper airplane or a box while using teamwork and being in a team environment Precision Instructions Students will be tasked with constructing a paper airplane from another students directions, and then will find the original designer of the plane. Desert Survival Teams are tasked with ranking a list of 15 survival items by importance. All team members must agree on the team ranking.
•	Correct Answers	Other Evidence:Online quiz

S3 LEARNING PLAN: Summary of Key Learning Events and Instruction

1. Set Introduction

Choose a major sporting event that is taking place while teaching this lesson. Discuss how the different players work together to win. Is there a star athlete on the team? Could he/she win if it weren't for the other players?

2. PowerPoint

This lecture is based around the provided text and PowerPoint. Review the text before giving the presentation to expand you list of examples and knowledge over the content

3. Student Notes

Encourage your students to take notes as this materials will be tested son the day following the lecture

4. Student Time

Allow at least one night in between your lecture and the online quiz for your students to study.

Progress Monitoring:

- The instructor will need to monitor the classroom, checking student's work and ensuring students are on task and following directions.
- Ensure students store their projects at the end of class and leave all materials in the room.
- At the end of the activity, post student projects in the room and provide appropriate feedback

DIFFERENTIATION: Summary of Key Differentiation Techniques

Please use this space to insert your differentiation techniques. Depending on the needs of students, various techniques might be needed in a classroom, therefore use the information below and experts in the area needed to design your plan for differentiation.

The ASCD Study Guide for Integrating Differentiated Instruction and Understating by Design: Connecting Content and Kids. by Carol Ann Tomlinson, Jay McTighe

Integrating Differentiated Instruction and Understating by Design: Connecting Content and Kids. by Carol Ann Tomlinson, Jay McTighe ISBN-13: 978-1416602842 ISBN-10: 1416602844



COURSE: Introduction to Engineering				
UNIT: Teamwork and Concurrent Engineering	EXERCISE:	TIME FRAME: 1-2 hours		
Differentiating Reading Instruction by Laura Robb. ISBN13: 9780545022989 A Teacher's Guide to Differentiating Instruction The Center for Comprehensive School Reform and In	mprovement			
CAREER CONNECTIONS: Summary of Career	Opportunities Associated with this Lesson			

Please use this space to insert careers that might be connected to this lesson. This section will need continuous updating as new careers and emerging technologies change the opportunities available in the workforce.

Good sources for career connections:

Occupational Outlook Handbook <u>http://www.bls.gov/ooh</u>

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The National Career Clusters® Framework http://www.careertech.org/career-clusters

KEYWORDS: Please Insert Keywords from this Lesson with their Definitions

Please use this space to insert keywords and their definitions Use resources like <u>dictionary.com</u> to find definitions to your keywords

