				Elocation. <u>500</u>	
Subject (Circle All That Apply):	Science Technology Eng	ineering Arts	Mathematics		
Grade Level (Circle All That Apply)	: Middle School	High School	Collegia	ate	
Topic Title: <u>Engineering VR</u>					
	Lesson	Focus and Go	als		
SUBJECT OBJECTIVE: 1. Understand the concept o	f basic assembly and block coding.	JHSL OBJE 1. Wo Rea 2. Exp	CTIVE: rk with students to g lity technology in th pose students to criti	get them a hands on experience with Vir he classroom. cal thinking skills in the STEM field.	ual
	Texas Essential Kr	owledge and	Skills (TEKS)		
$C \rightarrow B C \cap A A C \cap H KOOOHOS H$				Juliuc, i cumulogy, Engineering, and	
C.5.B, C.6.A & C.6.D. KODOLCS II; Mathematics; c.2.A, c.2.C & c.5.A c.4.W	A. Extended Practicum in Science, Tec Struct Halliburton Introduction Talk (appr Even though Halliburton is an oil and g Workforce. The Javelina Halliburton S problem solving skills associated with generation, at-risk and underserved hig resources for students that want to expl	cture/Activity ox. 5 minutes, only ig gas industry, Hallibu TEM Labs provide t sciences, technology h school and underg lore the engineering	f not have been comp rton is also very invo he opportunities to e r, engineering, math raduate students. Ha field.	ics ; c.3.A. Computer Science I ; c.4.E, o pleted before with students) ested in the next generation of STEM enhance high level critical thinking and and geosciences (STEM) to talented, fir alliburton provides meaningful engagem	.4.H, t- nt and

 4. Level 2 (approx. 2 minutes) After assembling the robot students introduced initially, so students will 5. Level 3 (approx. 20 minutes) Students will now be given another maze to another. After 2 simple exe difficult paths. 	will enter a tutorial on how to make the robot move via block coding. Only one method is learn the method itself and the appropriate parameters they must enter. tutorial with the same movement method on how to move the robot from one point of a rcises students will be expected to move and rotate the robot through longer and more				
Learning Objective					
	Content Review				
 Students should know that Any object is a culmination of other objects. Basic fundamentals that assemblies require programming. Coding should be a complicated process that takes trial and error. 	 Students have been asked 1. Have you built a robot before? 2. Do they understand what block coding is? 3. What do the various arguments inserted inside a method do? 				
New Content					
 Students will know How arguments input affects the program and the function of the robot. 	 Students will be able to Understand the basic concepts of assemblies. Understand how block coding is structured. Understand how to enter parameters and how these arguments make the robot move. Have an idea of the trial and error programmers use in the real world. 				
Assessment					
Students will be asked to complete a quick evaluation after the worksho	p so we can continue to improve our services.				

Sources of Information: