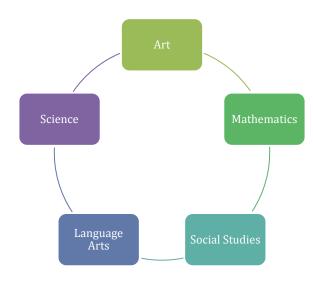


Stem School Chattanooga

9th Grade PBL Unit Plan Template

Unit 1: Leadership and Collaboration



Learning Target Topics

Art I: Examine material, technologies, processes, and terminology used during project development.

Algebra I: Develop a rubric to assess the plan and implementation of a team building activity.

Geometry: Develop a rubric to assess the plan and implementation of a team building activity.

English I: Collaborate to set group and presentation norms and expectations; Prepare and participate effectively in group discussions and activities.

Physical World Concepts: Appropriately utilize a given format for the Engineer Design Report; Create a team building activity.

World History: Establish a team contract with measurable goals and requirements; Execute the contract; Set standards and deadlines for group understanding and participation.

Grade Level	9 th Grade	Unit Length	3 Weeks
Unit Overview	The Unit 1 PBL on Leadership and Collaboration successful at the STEM School and in the future, group dynamics. This will be achieved through <i>Teens</i> by Sean Covey. Students will be assigned circles, planning presentations as a group for th will then apply the habits learned in the book the individual mission statements, as well as the de Habits, including a rubric and reflection for the	including collaboration, goal set a jigsaw group literary study of two parts of the book to read an eir PBL group members on their arough the writing of an effective velopment of a team-building ac	ting, contract writing, and The 7 Habits of Highly Effective d discuss in jigsaw literary assigned sections. Students PBL group contract and
Unit Essential Issue	Strand: Leadership and Collaboration		
Culminating Events	For the Unit 1 PBL, the students will work collal Highly Effective Teens and participate in Jigsaw and presenting assigned sections to their PBL grand develop a Team-Building Activity based on	Literary Circles, writing individu roup partners. Student groups w	al/group mission statements ill also write PBL Contracts
	Small 2-3 Group Presentations – Week of Sep The culminating event for this PBL is a small 2-3 The 7 Habits of Highly Effective Teens through the evaluation by the paired groups. The following Team-Building Activity Plan/EDR (Eng Team Building Activity Rubric and Reflections)	3 group presentation where stud ne demonstration of their Team-l items will be turned in as part of ineering Design Report)	Building Activity and its

The following items will be assessed by the appropriate content area teacher:

- Math (Algebra I and Geometry): Development of a rubric to assess a team building activity
- Physical World Concepts: Team-Building Activity based on the 7 Habits and EDR
- Art: An instrument that allows group members to critique the work habits during project development
- World History: PBL Team Contracts
- English: Preparation documents and Participation in Jigsaw Literary Circles and Section Presentations to PBL groups

Common Assessment

	STEM PB	L Rubric	PBL Unit: #1 – Leadership an <u>Collaboration</u> Student: Date:
	Advanced	Proficient	Needs Improvement
Math Components: Algebra I	Students can evaluate the effectiveness of the rubric they developed, and make adjustments as needed to improve its usefulness.	Students can develop a rubric to assess the effectiveness of the planning and implementation of a team building activity.	•
Math Components: Geometry	Students can evaluate the effectiveness of the rubric they developed, and make adjustments as needed to improve its usefulness	 Students can develop a rubric to assess the effectiveness of the planning and implementation of a team building activity. 	
Science Components: Physical World Concepts	Students have included a section of recommendations for drafting a better engineering design report for a more effective team building exercise, as based on their own experiences.	 Students have completed the minimum requirements for the engineering design report for the team building activity. Students have created a teambuilding activity based on the assigned reading. 	
Language Arts Components: English I	 Jigsaw discussion preparation is complete, detailed, and includes text evidence to help guide the section discussions. Student furthers the group discussion and offers interactive ideas for the section presentations to the PBL groups. Students involve PBL members in the section presentations, using interactive activities to connect the ideas to real-life school and life scenarios. 	 Student is prepared for jigsaw discussions with notes and answers to questions for each of the 2 assigned sections from 7 Habits. Student participates in discussion, using preparation activities to help plan the section presentations. Section information is clearly presented to PBL group, using presentation information and visual aids from the jigsaw discussion groups. 	
Social Studies Components: World History	The writing of the PBL Contract is well organized and detailed, with concise and clear information about the PBL responsibilities. Allows facilitator to know where each group member, and the group as a whole, stands on progress and completion. The responsibilities, specific deadlines that are clearly followed, and interventions outlined in the contract were successful in creating an effective plan for the PBL group to follow.	 PBL Contract is easy to understand and allows facilitator to know where each group member, and the group as a whole, stands on progress and completion. PBL Contract identifies specific group and individual responsibilities, deadlines, and intervention procedures. Few errors in spelling, punctuation, and capitalization affect the effectiveness of the PBL contract. 	

Art Components: Art I	 PBL Contract conveys ideas clearly through correct use of spelling, punctuation, and capitalization. The critique instrument is a two dimensional digital image. The critique instrument has at least four categories to be considered for analyzing project The critique instrument is a neatly composed image. The critique instrument has a clear method for identifying the various levels of work habits.
Minimum Requirement Components: Must be included to be graded	development. Small Group Presentation Requirements and Parts: Demonstration of Team-Building Activity. Assessment of Activity by Peers using the rubric. Evaluation of Team-Building Activity's effectiveness through reflection. Math: Rubric must include a minimum of four categories and a description of requirements to meet
	below basic, proficient or advanced for each category. English I: Literary Circle Participation Documents must be completed for each section. History: Contracts must include names and signatures of all group members and PBL Lead Teacher, with
	each receiving a final copy of the signed contract. PWC: Students must draft and submit an engineering design report for their activity. Create a team-building activity based on the 7 Habits.

Unit Learning Targets

Algebra 1:

• I can develop a rubric to effectively assess the planning and implementation of a team-building activity.

Geometry:

• I can develop a rubric to effectively assess the planning and implementation of a team-building activity.

PWC:

- I can create a team-building activity based on the 7 Habits of Highly Effective Teens.
- I can appropriately utilize a given format for the Engineer Design Report.

English I:

- I can work with peers to set rules for group discussions and decision-making, clear goals and deadlines, and individual roles as needed.
- I can create and follow norms and procedures for literary circle discussions and class/whole group presentations.
- I can participate effectively as a member of a team, preparing effectively for discussions and offering positive feedback and ideas for the topic and task.

World History:

- I can work with peers to establish a contract that guides the group and establishes checkpoints to produce a successful team project.
- I can establish intervention procedures with my group to assist in any act that delays or stunts the growth of the project.
- I can plan and establish clear deadlines that create both a plan of attack and flow of progress to have a successful and well-tested product.

Art:

• I can develop an instrument to critique work habits through the examination of material, technologies, processes, and terminology used during project development.

ulary Math: Algebra I	1. Rubric
Math. Mgcbra 1	2. Classify
	3. Assess
Math. Carrenters	
Math: Geometry	1. Rubric
	2. Classify
	3. Assess
Science: Physical World Concepts	1. Engineering Design Report
Language Arts: English I	 Audience/Task/Purpose
	2. Norms
Social Studies: World History	1. Active/Passive Voice
	2. Intervention
	3. Deadlines
	4. Procedure
Art: Art I	1. Professionalism
	2. Teamwork
	3. Integrity
	4. Productivity