STEAMS Anne Frank Project-Based Lesson Plan (Grades 7-12)

Objective: The objective of this interdisciplinary lesson plan is to explore the historical significance, technological impacts, and societal implications of Anne Frank's life and the Holocaust. Through a STEAMS (Science, Technology, Engineering, Arts, Mathematics, and Social Studies) approach, students will engage in activities integrating various disciplines to understand the multifaceted aspects of this period in history and its enduring impact.

Key Components

Science (S): Health and Environmental Conditions During WWII	❖ Topic: Study the health challenges faced by people in hiding, like Anne Frank, and the environmental impacts of WWII. ❖ Projects: 1. Create a detailed report on the health conditions experienced in hiding, such as malnutrition and the spread of diseases like tuberculosis. 2. Design an experiment or research project that investigates the environmental consequences of wartime activities, such as deforestation and air quality degradation.
Technology (T): Communication and Information Security	❖ Topic: Explore the technology used for communication and information security during WWII. ❖ Projects: 1.Construct a digital diary project, where students imagine themselves in Anne Frank's situation, using modern technology to express their thoughts and emotions.

	2.Develop a presentation on the methods used to communicate secretly during the war, including encrypted messages and hidden radios, and relate these to modern cybersecurity practices.
Arts (A): Creative Expression of Anne Frank's Legacy	❖ Topic: Explore the historical context of the Holocaust and Anne Frank's life, including the global impact of WWII. ❖ Projects: 1.Create a piece of artwork (e.g., a painting, sculpture, or digital media) that captures the emotional and historical significance of Anne Frank's diary and the Holocaust. 2.Write a reflective essay on how Anne Frank's story has been represented in different forms of art and media, discussing its impact on collective memory and cultural identity.
Math (M): Statistical Analysis of Holocaust Data	❖ Topic: Analyze the mathematical and statistical data related to the Holocaust, focusing on population impacts and survival rates. ❖ Projects: 1.Solve mathematical problems related to the demographics of European Jews before and after the Holocaust, calculating survival rates and the long-term effects on Jewish populations. 2.Create a mathematical model showing the impact of the Holocaust on European demographics, using statistical tools to analyze and present findings.

Social Studies (SS): Historical Context and Global Impact	❖ Topic: Explore the historical context of the Holocaust and Anne Frank's life, including the global impact of WWII. ❖ Projects: 1.Create a timeline of key events leading up to and during WWII, highlighting Anne Frank's story within the broader historical context. 2.Develop a presentation on the significance of Anne Frank's diary in understanding the human impact of the Holocaust, and discuss the ongoing relevance of her story in today's world.

Assessment Criteria
Students will be assessed on their ability to integrate and apply knowledge from various disciplines, their creativity and critical thinking skills, and their engagement with the historical and ethical dimensions of the Holocaust. The final assessment should include a comprehensive project that ties together the different STEAMS components, demonstrating a well-rounded understanding of Anne Frank's legacy and the broader context of WWII.