

STEAMS Women's Health Care Month Project-Based Lesson Plan (7-12)

Objective: The objective of this interdisciplinary lesson plan is to celebrate Women's Health Care Month by empowering students to explore various aspects of women's health through a STEAMS (Science, Technology, Engineering, Arts, Mathematics, and Social Studies) approach. Students will delve into the science of women's health, technological advancements in healthcare, engineering solutions for improving access to care, artistic expressions of women's health experiences, mathematical analysis of health data, and social studies perspectives on healthcare disparities. Suitable for grades 7-12, this lesson plan aims to promote awareness, understanding, and advocacy for women's health issues.

Key Components

Science (S): Understanding Women's Health	Topics: <ul style="list-style-type: none">❖ Activity: Investigate the biological, physiological, and psychological aspects of women's health, including reproductive health, menstrual health, and menopause.❖ Project: Research common health conditions affecting women, such as breast cancer, ovarian cancer, and osteoporosis. Explore causes, symptoms, risk factors, and treatment options.
Technology (T): Technological Innovations in Women's Healthcare	Topics: <ul style="list-style-type: none">❖ Activity: Explore technological advancements in women's healthcare, such as telemedicine, wearable health trackers, and digital health platforms.❖ Project: Design and develop a prototype for a health app or device aimed at addressing a specific women's health issue. Consider

	usability, accessibility, and privacy in the design process.
Engineering (E): Engineering Solutions for Women's Health Challenges	<p>Topics:</p> <ul style="list-style-type: none"> ❖ Activity: Investigate engineering solutions for improving access to women's healthcare, such as medical devices, diagnostic tools, and healthcare infrastructure. ❖ Project: Develop a proposal for an engineering project to address a women's health challenge in the local community or globally. Design and build prototypes of healthcare solutions.
Arts (A): Artistic Expression of Women's Health Experiences	<p>Topics:</p> <ul style="list-style-type: none"> ❖ Activity: Examine artistic expressions of women's health advocacy through visual arts, literature, theater, and film. ❖ Project: Create artworks, poems, stories, or performances that reflect the diverse experiences of women's health. Use creativity to raise awareness and promote empathy.
Math (M): Mathematical Analysis of Women's Health Data	<p>Topics:</p> <ul style="list-style-type: none"> ❖ Activity: Collect and analyze health data related to women's health, such as epidemiological studies, clinical trials, and health surveys. ❖ Project: Use mathematical modeling and statistical analysis to explore patterns, trends, and disparities in women's health outcomes. Interpret data to inform public health interventions and policies.
Social Studies (SS): Social and Cultural Perspectives on Women's Health	<p>Topics:</p> <ul style="list-style-type: none"> ❖ Activity: Investigate social, cultural, and economic factors influencing

	<p>women's health outcomes, including access to healthcare, health literacy, and healthcare disparities.</p> <ul style="list-style-type: none">❖ Project: Research case studies of women's health issues in different communities and countries. Analyze the impact of social determinants of health on women's well-being.
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Assessment Criteria

By the end of this lesson plan, students will demonstrate a comprehensive understanding of women's health issues, as well as proficiency in interdisciplinary skills across STEAMS disciplines. Assessment will be based on project completion, research quality, critical analysis, creativity, and the effectiveness of proposed solutions. This STEAMS Women's Health Care Month Project-Based Lesson Plan empowers students to advocate for women's health and well-being, fostering a sense of empathy, awareness, and action for positive change in healthcare systems and policies.