Healthy Beginnings, Hopeful Futures 8-Step PBLP (Grades 7-12)

Objective: Students will explore how innovation can support early health interventions, maternal and child wellness, and sustainable futures for communities. Using a STEAMS (Science, Technology, Engineering, Arts, Mathematics, and Social Studies) approach, students will develop innovative ideas and interdisciplinary projects that address real-world health disparities and empower communities toward "Healthy Beginnings, Hopeful Futures."

Round Table

Opening Discussion:

- > What does a "healthy beginning" look like for a child?
- > How can innovation help create long-term, hopeful futures?
- Purpose: Introduce students to the intersection of innovation and public health—highlighting how early interventions and creative solutions can shape generations.

Reflection Point

Discussion Questions:

- > Who is most at risk of poor health outcomes in your community or around the world?
- > What role does innovation play in preventing disease and improving early-life care?

❖ Materials:

- > Videos from industry think tanks about maternal and child health
- > Journal for reflections
- Guest speakers: pediatric nurses, midwives, public health professionals, or health-tech founders

Knowledge Setting

Science (S): Innovations in Child & Maternal Health	 Objective: Understand how scientific advancements improve early-life outcomes. Activity: Research topics such as prenatal vitamins, clean birthing kits, vaccines, and nutrition innovations.
Technology (T): Mobile Health & Access	 Objective: Understand how apps and devices support underserved populations. Activity: Study mobile tools for remote diagnostics, vaccination tracking, or postpartum health monitoring. And the effects of lack of access.
Engineering (E): Designing for Wellness Access	 Objective: Understand the structural solutions that improve access to clean water, shelter, or clinics. Activity: Analyze low-cost, scalable clinic or mobile wellness units for rural areas.
Arts (A): Campaigning for Healthy Futures	 Objective: Understand how visual storytelling drives awareness in healthy beginnings. Activity: Research health awareness campaigns focused on infants and maternal care, and design posters or digital stories.

Mathematics (M): Data & Disparities in Global Health	 Objective: Understand global and local health inequalities and industry think tank indexes. Activity: Analyze charts or key points showing infant mortality, access to prenatal care, or clean water usage.
Social Studies (SS): Policy, Equity & Access	 Objective: Understand how policy influences who receives care and how early. Activity: Compare health systems in different countries or regions and identify key disparities and solutions.

Project Examples

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Progress Map for Project Delivery	❖ Week 1: Project Proposal
	Students create a written
	proposal outlining the focus of
	their project and community
	benefit.
	Week 2: Project Approval and
	Community Engagement Plan
	 Students submit their
	proposals and outline how
	their work will positively impact
	the community, ensuring
	alignment with the project's
	learning objectives and
	addressing real-world needs.
	Week 3: Research Progress Update
	 Students conduct research
	and gather data related to their
	chosen focus area.
	Week 4: Draft of Final Project
	 Students compile their findings
	into a draft report or
	presentation.
	Week 5: Final Project Refinement
	and Approval for Implementation
	 Final feedback is provided,
	and the projects are presented
	at a community event involving
	local leaders and
	stakeholders.

Science (S): Health Starter Kits	Project Example: Design a shelf-ready starter kit to support new mothers in underserved areas (including soap, vitamins, health guides, etc.).
Technology (T): Wellness App Prototype	Project Example: Create a prototype for a mobile health device that supports expectant mothers or new parents in remote areas.

Engineering (E): Mobile Health Pod	Project Example: Design a unique multipurpose blueprint for a mobile unit equipped to serve maternal/infant health needs.
Arts (A): Health Begins Here Campaign	Project Example: Design pamphlet infographics promoting "Healthy Beginnings, Hopeful Futures" for World Health Day.
Mathematics (M): Life Expectancy Dashboard	Project Example: Develop a dashboard using global data that compares early life conditions and their long-term effects.
Social Justice (SS): Health Equity Policy Proposal	Project Example: Draft a policy initiative that advocates for improved prenatal and early childhood healthcare in underserved communities.

Community Involvement

- Objective: Combine all subject-based projects into one cohesive health innovation initiative.
- Activity: Partner with local clinics, nonprofit organizations, or health departments.

 Host a World Health Day innovation fair to share student ideas with healthcare leaders and community members.

Assessment

- ❖ Objective: Evaluate students' understanding of health innovation and its interdisciplinary application.
- ❖ Methods: Use rubrics that measure innovation, collaboration, problem-solving, community impact, and understanding of health equity.

Feedback Loop

- **Activity**: Students reflect through a facilitated group discussion or written response.
- ❖ Journal Prompt:
 - > What does healthcare innovation mean to you now?
 - ➤ How can small ideas lead to big changes in health and community well-being?

Resume Integration

Survey career interest in healthcare, biotechnology, public health, design thinking, social work, data analytics, civic engagement, and nonprofit innovation. Showcase projects on resumes, highlighting skills in research, innovation, community impact, and advocacy.

