

STEAMS AAPI Heritage Month Project-Based Lesson Plan (7-12)

Objective: The objective of this interdisciplinary lesson plan is to celebrate Asian American (including West Asia and Southeast Asia) and Pacific Islander (AAPI) Heritage Month by exploring the diverse cultures, histories, and contributions of AAPI. Through a STEAMS (Science, Technology, Engineering, Arts, Mathematics, and Social Studies) approach, students will engage in a comprehensive exploration of AAPI heritage, fostering understanding, appreciation, and critical thinking skills. Suitable for grades 7-12, this lesson plan promotes cultural diversity, inclusivity, and cross-cultural understanding.

Key Components

Science (S): Scientific Discoveries and AAPI Innovations

Topics:

- ❖ Activity: Explore scientific discoveries and breakthroughs made by AAPI (including West and Southeast Asian communities) scientists in fields such as physics, chemistry, and biology.
- ❖ Project: Conduct experiments or simulations to replicate and explore scientific principles and innovations pioneered by AAPI scientists, fostering curiosity and inquiry.

Technology (T): Technological Innovations and AAPI Contributions

Topics:

- ❖ Activity: Investigate technological innovations and contributions made by AAPI (including West and Southeast Asian) communities in fields such as science, medicine, and technology.
- ❖ Project: Design and prototype a technological solution inspired by AAPI inventors or innovations, integrating principles of innovation and creativity.

<p>Engineering (E): Engineering Challenges and Solutions in AAPI Communities</p>	<p>Topics:</p> <ul style="list-style-type: none"> ❖ Activity: Study engineering achievements and challenges faced by AAPI (including West and Southeast Asian) communities, such as infrastructure development and environmental sustainability. ❖ Project: Develop proposals for engineering projects that address the needs and challenges of AAPI communities, integrating principles of sustainability and social responsibility.
<p>Arts (A): Artistic Expression and AAPI Identity</p>	<p>Topics:</p> <ul style="list-style-type: none"> ❖ Activity: Examine artistic expressions of AAPI (including West and Southeast Asian communities) identity through visual arts, music, literature, and performing arts. ❖ Project: Create original artworks, performances, or literary works inspired by AAPI themes and experiences, fostering creativity and self-expression.
<p>Math (M): Mathematical Applications and AAPI Contributions</p>	<p>Topics:</p> <ul style="list-style-type: none"> ❖ Activity: Analyze mathematical concepts and applications in AAPI (including West and Southeast Asian communities) achievements, such as architecture, economics, and data science. ❖ Project: Solve mathematical problems or create mathematical models inspired by AAPI mathematicians, engineers, and scientists, emphasizing critical thinking and problem-solving skills.
<p>Social Studies (SS): Cultural Diversity and Historical Context of AAPI Heritage</p>	<p>Topics:</p>

	<ul style="list-style-type: none">❖ Activity: Explore the history of Asian American (including West and Southeast Asian communities) and Pacific Islanders in the United States. Research immigration patterns, cultural traditions, and contributions to American society.❖ Project: Research and create multimedia presentations or exhibits highlighting significant figures, events, and landmarks in AAPI history and culture.
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Assessment Criteria

By the end of this lesson plan, students will demonstrate a comprehensive understanding of AAPI (including West and Southeast Asian communities) heritage, achievements, and contributions across STEAMS disciplines. Assessment will be based on project completion, research quality, critical analysis, creativity, and the effectiveness of interdisciplinary connections. This STEAMS Asian American & Pacific Islander Heritage Month Project-Based Lesson Plan celebrates the diversity and richness of AAPI cultures and histories, fostering empathy, understanding, and appreciation for cultural heritage and diversity in American society and beyond.