six-unit experiential curriculum that provides instructors with unique, relevant content and activities that teach middle school standards while igniting students' interest in heritage preservation, architecture, and engineering.

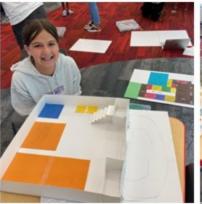
Target State:

## INDIANA

The curriculum was created with an equity lens in mind, recognizing the need to commemorate, honor, and conserve the histories of historically neglected and underrepresented communities.

EQUITY
COMMUNITY
SUSTAINABILITY
SIGNIFICANCE
RELEVANCE

## **EDUCATE: INSPIRE: PRESERVE**







# STEAM THROUGH HERITAGE PRESERVATION



Helena Currie Technical Advisor & APTI ARC Co-Chair



Ashima Krishna Project Director



Brianne Wrede
Director of Academics

Indiana Curriculum Design Team

Supported by the Historic Preservation Education Grant from Indiana Humanities and Indiana







### Proposed six units CURRICULUM

"It is so rewarding to bring preservation into public schools and watch the next generation begin to explore and question the built environment around them. By introducing preservation as story-telling at a young age, we hope to diversify the minds and voices contributing to preservation conversations in the years to come '

> - Helena Currie Technical Advisor & APTI ARC Co-Chair

the Historic Preservation Education Grant from Indiana Humanities and Indiana Landmarks









Handout Materials

STEAM Through
Heritage Preservation:

MORE Middle School Curriculum Summary



and Historic

Preservation

Plans







Unit 5 and 6 -

### UNIT 1

**Understanding Community and** the Built Environment

### UNIT 2:

Understanding Historic Preservation, Equity, and Significance

### **UNIT 3:**

Architecture and Historic Preservation

### **UNIT 4:**

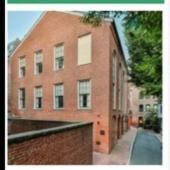
Structural Engineering and Historic Preservation

### UNIT 5 & 6:

Historic Preservation Communitybased Projects

## Academic Curriculum that Introduces Preservation as Story Telling

#### The African Meeting House



The oldest Black church edifice still standing in the US and where the Anti-Slavery Society was founded and Frederick Douglass spoke.

#### The Old South Meeting House



Where Colonists decided to resist the British tax policies through the Boston Tea Party.

#### The Fowler House



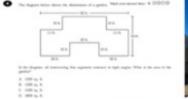
- Built in 1652, and is one of ninety-seven known Gothic Revival style buildings.
- Tells the story of a prominent family in the City of Lafayette.
- Serves as a restaurant/medding venue.
- Listed on the National Register of Historic Places in 1971.

#### Fort Ouistenon



- Built in 1717, this was the first fortified European settlement in what is now Indiana.
- Every year, a reinactment of pioneer life, called the Feast of Hunders' Moon, is held at a replica fort near the original site.
- Listed on the National Register of Historic Places in 1970 and designated a National Historic Landmark in 2021.







- Explain the importance of including evidence and reasoning when making a claim about a place being significant.
- Recognize quantitative vs. qualitative data.
- Distinguish between technical and emotional arguments.



### .

#### What makes two of these places significant?

Be ready to explain using some of the reasons listed below.

What story does it tell?

What events took place there?

Who lived there and what did they do?

Was the person who built it exceptional in some way?

Does it represent a certain way of life or culture or style?

Does it have unique features or characteristics?

Does it have artistic significance?





### What does historic preservation look like?

Maintaining an item in its original condition. Preventing future damage/decay. Documenting a item prior to removing or replacing it. Converting the use and/or appearance of an item to provide more relevance in today's world.





Do you recognize this building? Check out the ideas for preserving and usin

## What does historic preservation look like? Maintaining an Preventing future Documenting Conver

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Do you recognize these buildings? Check out the ideas for preserving and using then









## INDIANA CIRCULLUM

Supported by the Historic Preservation Education Grant from Indiana Humanities and Indiana Landmarks













Downtown Lafayette Historic District- Lafayette, IN

What do these pictures of the built environment tell you about what the society or communities of Lafayette **value**?



Tippecanoe County Public Library - Lafayette, IN



City Bus Stop - Lafayette, IN

### Explores how the Built Environment Reflects Local Societal Values

"I am passionate about this program because it creates opportunities for students to engage in STEAM learning, explore their community heritage, and see themselves as difference makers for the future."

- Brianne Wrede, Director of Academics

Adaptation from Boston Curriculum



## INDIANA CIRCULLUM

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# Demonstrates Local Preservation Examples

This program is a wonderful and localized way for middle school students to get introduced to and excited about historic preservation, and I hope to have opportunities to enhance their higher education in this field at Purdue University.

- Ashima Krishna, Program Director



### Preservation Architects use the Design Process

1. DEFINE. Define and set goals for the design problem.

2. INVESTIGATE. Research the design problem.

3. BRAINSTORM. Generate ideas and sketches to explore many design solutions.

4. CHOOSE A SOLUTION. Choose one solution that best meets your design goals.

5. DESCRIBE THE SOLUTION. Draw, build or write to explain your design ideas.

 EVALUATE. See how well your design meets your goals and solves your design problem. Identify any drawbacks or areas for improvement.

7. PRESENT. Share your design with others.

 $8.\,RE\text{-}DESIGN.$  Think about how you would improve your design based on what you know now.



## Culminates in a Real-World Adaptive Reuse Project



Grade 6 Historic Preservation STEM Lesson Plan

### Units 5&6 Preservation Project Rubric & Directions

#### Introduction/Overview:

As we've learned in Units 1 to 4, the buildings around us should serve our community needs and reflect our societal values. There are many advantages to preserving (saving) existing buildings, whether it be because of the story the building tells or the positive effects on the environment (by reusing rather than disposing of existing building materials). Saving a building often requires community advocates (that's you!) to reach out to local politicians and decision-makers with rationale to save existing (vacant, underutilized or outherwise endangered) buildings and to create compelling ideas for reuse that will make the building more relevant to the current community. For Units 5 and 6, students will spend up to two weeks researching an endangered building in Indiana and developing a persuasive letter to real-world leaders that outline why and how the building should be protected. The letters will be accompanied by a physical representation of the proposed protection/reuse, which will be attached to the email.

#### Project Outline/Steps:

- 1. Project Development:
  - a. Select a building to save using the following list: 10 Most Endangered Indiana Landmarks
  - b. Let the teacher know which building you've selected and why.
  - c. Determine who to send your email to that might have influence in protecting the building. Think about who currently owns the building and who used to own the building. Think also about local community advocacy groups that might support such a project.
  - d. Fill out the PROJECT TRACKING SLIP to keep track of everyone's buildings/emails.
- Use Claim, Evidence and Reasoning to develop a compelling argument to protect or reuse the building and convince the recipient of the letter to assist in that effort.
  - a. Outline the main argument using handouts from Units 1 and 2, Smash Boom Best.
  - b. Develop your letter using this EMAIL SAMPLE/TEMPLATE.
  - c. Remember to check the rubric to ensure you have everything you need.
  - d. Get at least two peer reviews of draft letter from classmates.
- Create a visual/oral/graphic representation of the proposed adaptive reuse or historic intervention.
  - This can be done with sketch-up, hand sketches, internet images, music/verbal recording, etc.
  - b. Present preservation/adaptive reuse representation to classmates for feedback.
- 4. Compile and send the letter with image/rendering as an attachment.







Going...Going...Not Quite Gone
THE PLACES WE COULD LOSE UNLESS



### Hulman Building and Garage

20 NORTHWEST 4TH STREET, 109-111 NORTHWEST 3RD STREET, EVANSVILLE



Stinesville Commercial Buildings

8211-8237 WEST MAIN STREET, STINESVILLE

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This is an APTI Academics & Research **Committee** initiative in collaboration with the National Council for Preservation **Education** (NCPE) and the **American** Institute of Architects (AIA), Historic **Resources Committee** (HRC), with continuous input from teachers and **experts** in the field of preservation education to develop this program.

Thank you!

## Partners & Sponsors

It is an outcome of efforts undertaken by the APTI Academics & Research Committee Chairs - Helena Currie and Michael Tomlan, and its members.

"APTI is honored to assist the statewide and local organizations involved in the education of future preservation professionals throughout the world"

> - Michael A. Tomlan, FAPTI Co-Chair Academics & Research Committee

EQUITY COMMUNITY SUSTAINABILITY SIGNIFICANCE RELEVANCE

### Our Sponsors for Indiana Curriculum Design & **Implementation**





### **Partners**





#### Initiative by APTI Academics & Research Committee



The Association for Preservation Technology International L'Association internationale pour la préservation et ses techniques