

NCTA Lesson Plan

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Title: Temple Architecture

Theme/Topic: Art/STEAM

Introduction Introduce: Asian history, culture, religion and architecture that leads to a hands on project

Subject(s)/Grade level(s): 3rd-7th

Duration of lesson: Five, 50 minute classes



Beopjusa Temple c 553 build by Silla Monk Uisin
UNESCO photo

Connection to National Art Standards:

Create:

Anchor Standard 1: Generate and conceptualize artistic ideas and work, Brainstorm multiple approaches to a creative art or design problem. VA:Cr1.1.4a

Anchor Standard 2: Organize and develop artistic ideas and work., Demonstrate quality craftsmanship through care for and use of materials, tools, and equipment. VA:Cr2.2.5a

Connecting:

Anchor Standard 10: Synthesize and relate knowledge and personal experiences to make art, Create works of art that reflect community cultural traditions. VA:Cn10.1.4a

Anchor Standard 11: Relate artistic ideas and works with societal, cultural, and historical context to deepen understanding, Through observation, infer information about time, place, and culture in which a work of art was created. VA:Cn11.1.4a

Essential Questions:

What is Architecture?

How are Temples designed differently from other structures?

What is unique to the Buddhist Temple design?

What is Design?

How do I build a 3D structure?

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Learning Objectives:

Create a structure & problem solve

Learning Targets:

Interact: I can create! I can collaborate. I can problem solve.

Materials Needed:

Cardboard

Paper

Scissors/

Exacto knives (optional depending on the grade)

Glue

Pencils/erasers

Scraps of matte board & construction paper

Any other scraps or free choice materials you want to include: buttons, brass fasteners, wood scraps, yarn, rope, wooden craft sticks, tooth picks, paint, markers, colored pencils, fabric, transparencies

Pre-Assessment of Prior Knowledge:

Suggested Cultures of Thinking Routines:

- *See-Think-Wonder*
- *Zoom In*
- *Think-Puzzle-Explore*
- *What Makes You Say That*

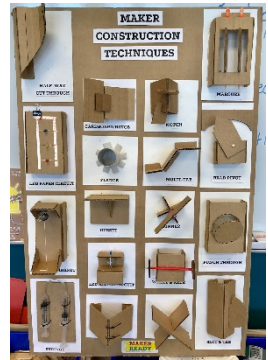
Lesson Activities/Instructional Strategies (5-7 steps):

- Begin with a COT Routine-Cultures of Thinking Routines allow students to dig deeper:
<http://acultureofthinking.weebly.com/listing-of-routines.html>
- Introduce Buddhism and Temple Construction, Share images via google slides/Powerpoint
- Greta video for younger students explaining temple construction with Mati & Dada
<https://www.youtube.com/watch?v=JlLGfo2FWI>
- Explanation of history of Buddhist temples and building in Eastern Asia
<https://www.britannica.com/technology/pagoda>
- Share some history on influence of Buddhism in East Asia:
 - Explain how it came from India to China via the silk road during the Han Dynasty
 - Based on simple moral teachings
 - Spread to Korea then Japan
 - Lead to two types including Zen which focused on meditation & discipline

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- Share some temples from East Asia, suggested:
 - Tongdosa in Korea
 - Toji in Japan
 - Hōryū-ji in Japan
 - Hanshan in China

- Compare and contrast with architecture from around the world:
(I suggest you choose one of the groups for compare and contrast)
You can focus on materials, size, shape etc...



Religious

Pantheon, Italy
 Parthenon, Greece
 Angkor Wat, Cambodia
 Notre Dame, France
 Hagia Sophia, Turkey
 Mahabohdi Stupa, India

Old

Taj Mahal, India
 St. Basil Cathedral, Russia
 Forbidden City, China
 Great Wall, China
 Kinkaku-ji, the Golden Pavilion, Japan
 Borobudur, Indonesia

New

Sydney Opera House, Australia
 Guggenheim Bilbao, Spain
 Burj Khalifa, Dubai
 30 St. Mary Axe (Gherkin), London, UK
 Le Tour Eiffel Tour, France
 Heydar Aliyev Centre, Azerbaijan
 Lotus Temple, Delhi, India
 Petra, Jordan

Create groups

Decide on class parameters: height, width, time, materials limit?

Have them brainstorm design ideas. How can the group incorporate a design idea from each member?

Day 2-5, construction. Demonstrate the various cardboard=construction techniques that your students may need to use to complete their project. Having a premade board to refer to during the project is

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helpful for students to self-advocate. I suggest including a flange, X-slot, tab-slot, gusset, corner brace, multi foot tabs, brad pivots, stacking and add more detailed techniques as the age gets older.

The image on the left was found at the blog Post from Mona Lisa Lives Here:

<https://monalivaliveshere.me/2019/11/18/cardboard-creature-project-phase-one-build/>

Resources:

Closing/Reflection Activity:

Have students share their structure and what inspired them. What details did they add from any culture they learned about

Chalk Talk- comments or questions for the builders before they present

Feedback/critique

Post-Assessment Ideas:

Using Culture Thinking Routines such as *I Used to Think-Now I Think*

Create a self-assessment rubric

Extension Activities/Extending the Lesson/Cross-Curricular Connections (2-3 ideas):

1. Make Cyanotypes before beginning this project. Cyanotypes have a history of blueprints. They are developed with sun sensitive paper and can also be a great link to science, nature and Social Emotional Learning (SEL)
2. Have students research a style of architecture from their culture and share some unique acts pertaining to architecture from that specific location
3. Compare/contrast religious buildings from around the world.

More resources:

- “Incredible [Cardboard Creations from Japan by the Artist Monami Ohno](#) by Brian Ashcraft, Kotaku East 2018
- [5 amazing examples of cardboard architecture – including world’s most complex](#) by Geraldine Chua, Architecture & Design 2014
- [BUDDHIST AND HINDU ARCHITECTURE](#), History World
- [Buddhist Temples in China](#) & [Chinese Buddhist Architecture](#) Travel China Guide
- Wikipedia also has a lot of information and images of Buddhist Temples in China, Japan & Korea