Lesson Title: Comparing Construction

Subject Area(s): Architecture / Social Studies / French Immersion

Grade Level: 1

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County: Montgomery County, MD

<table>
<thead>
<tr>
<th>Maryland Standards, Indicators, Objectives</th>
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<tbody>
<tr>
<td>Fine Arts Content Standard</td>
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<tr>
<td>Visual Arts: Standard 1.0 Perceiving and Responding: Aesthetic Education: Students will demonstrate the ability to perceive, interpret, and respond to ideas, experiences, and the environment through visual art.</td>
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<td>Content Standard</td>
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<td>Social Studies: Standard 2.0 Peoples of the Nation and World</td>
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<th>Fine Arts Indicator(s):</th>
<th>Content Indicator(s):</th>
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<td>1. Identify, describe, and interpret observed form</td>
<td>Topic A.</td>
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<th>Fine Arts Objective(s):</th>
<th>Content Objective(s):</th>
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<td>1. Describe colors, lines, shapes, textures, and forms found in observed objects and the environment</td>
<td>a. Observe and describe ways people in their school and community meet human needs for food, clothing, shelter, and other commonalities, such as recreation, music, and stories</td>
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<td>b. Discuss and respect traditions and customs of families in the community</td>
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Objective(s) (Connecting the content areas)
Students will identify familiar architectural elements of a famous Tibetan temple and compare the steps for the construction of a Tibetan temple to that of a modern house. (can also extend to Cathedrals, etc.)
Planning: Print sets of the seven pictures (one to four copies of each picture for each table group). For younger grades, students have a hard time ‘sharing’ and do best with one picture per student. Load the links for music and temple construction.

Description of Lesson/Activities Tell students they will be looking at pictures of a building in Tibet (Asia) and listening to music from that country (House building song) while doing so. They are to identify features of the building. (First grade: walls, windows, balcony; upper grades stretch to decorative elements finials, columns, etc.)
Show the Tibet slide show: Voyage au Tibet to give a little background
http://www.youtube.com/watch?v=QZLvk5U6NAk&feature=related

Procedure: Distribute one of of seven pictures of the Jokhang Temple to each table group. For primary grades, one picture per student (so 4 copies of each picture for a class of 28 students) works best as students have a hard time ‘sharing.’ Older students might do just fine sharing just one print per group. Students observe the pictures and describe what they see using the “Looking Ten Times Two” Artful Thinking technique. http://www.pz.harvard.edu/tc/routines.cfm  Play the song once, but not while the students are talking. http://plateaumusicproject.org/wp-content/uploads/2009/10/mz0000103.mp3
Then students rotate tables or pictures. Focusing on one picture a time helps students notice details more carefully.

Reconvene and list elements students saw. Vocabulary based on appropriateness for grade level. Also list questions they might have.

View Temple Construction link either fast (quick view) or slide by slide with red circle details. What is the person on the top of the building doing? http://www.tibetheritagetfund.org/pages/research/animation.php

Segue to final video clip tamping of the roof to get all the air out and make it waterproof.
http://www.thlib.org/avarch/mediaflowcat/framesets/view_title.php?videoId=faststart%3A6750&transcriptId=1515

Materials for Teacher
Computer hooked up and websites bookmarked
Colored pictures of temple building -7 sets of 7 or 1 set and students rotate with one picture at each table group.
Books which shows construction of a house (Byron Barton for grade 1) or other buildings: David McCauley’s Cathedral, Pyramid, etc.
Background articles on Jokhang and on Traditional Tibetan Architecture
Materials for Students
Pictures of the Jokhang Temple
For older grades: Recording sheet for “Looking Ten Times Two” (or a sheet of paper to list what they see).

Assessment Strategies
For first grade: ‘Password’ at the end of the day, teacher holds up one of the pictures and students must point to and name one of the construction related words (wall, roof, balcony, window, etc.) in order to exit the class. This can be differentiated by the teacher pointing to the item.
For older classes, assess based on your objectives and students' levels. Example:
What are three characteristics of the Jokhang that we also see in modern buildings?
Or How is temple construction in Tibet similar to modern construction techniques (choosing site, building foundations, etc.)
Resources:
Another Lhasa multimedia (with French headings)
À Lhasa, il y a… (In Lhasa, there are…)
http://www.youtube.com/watch?v=C-bUmXphKs&feature=related  (humor)

http://www.flickr.com/photos/shizei/with/1791925822/ Magnificent pictures on flickr (to view as slideshow on large screen if your school computer is fast enough – test ahead of time)
In French:  http://fr.wikipedia.org/wiki/Temple_de_Jokhang

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*** Animation of traditional Tibetan construction technology: Provides a step by step explanation on how the temples were built, from choosing the site to the completion. For complete and detailed information view each slide, including inserts of more details and photos. Click on the ‘quick menu’ to view the construction by sliding the mouse up the list of steps in one fell swoop.

http://www.tibetheritagefund.org/pages/research/animation.php

Tibetan Music
* Play the music of a working song praising the tools used when making adobe walls in the background if you wish. Students may also act out the construction steps. Provide the text of the song to introduce a different alphabet.

Sichuan Working Songs
http://plateaumusicproject.org/page/2/

Additional Tibetan Architecture Background can be found at the weblinks below:


The Potala Palace
http://www.presscluboftibet.org/china-tibet-29/potala-palace.htm

http://fr.wikipedia.org/wiki/Palais_du_Potala
Photo de [Baad](http://commons.wikimedia.org/wiki/File:Jokhang_golden_stupa.jpg)
Photographe: 段修刚

http://commons.wikimedia.org/wiki/File:Dazhaosi2.jpg
Auteur : search255  
http://commons.wikimedia.org/wiki/File:Jokhang_Temple_August_6.jpg
Photo by Nathan Freitas
http://commons.wikimedia.org/wiki/File:Ornamentation,_drapes,_and_flags_decorating_Jokhang.jpg

The last photograph is best printed directly off the link below