

GLUCK FELLOWSHIP DIGITAL DIY CURRICULUM SYLLABUS 2020-2021

EDUCATION | HEALTH | CULTURE | CREATIVITY

Introduce | Inspire | Involve | Impact

Fellow Name: Molly Bond
Department: History of Art

Title: Tessellations: Geometry and Art in Islamic Tile Work

Abstract: Tilework of the Islamic world is, perhaps, *the* most complex and visually-stunning application of geometric patterning ever undertaken. On the walls of built structures across the vast Islamic Empire—which lasted for nearly 1,300 years, from the early 7th century into the early 20th century—artisans created beautifully-intricate tile mosaics, using mathematical principles not even understood in Western science until the late 20th century! Over the course of this program we engage with this fabulous art by exploring the close connections between art and mathematics in Islamic tessellated tilework.

Learning Objectives/Outcomes:

By using this Digital DIY Curriculum students **learn** the basic *features* and *function* of geometric tile work in the Islamic world and how to **identify** tessellating patterns in such tile work (as well as in their everyday lives), **make** their own tessellated designs, and **reflect** on the geometric principles behind this repeated patterning.

Brief Biography:

Molly Bond is a returning Gluck fellow and a PhD candidate in the department of the History of Art at the University of California, Riverside, where her area of focus is 15th-17th-century Italian art. She grew up in Clarkston, Washington and received a Bachelor's degree in Art History from Willamette University (Salem, OR) in 2015).

Gluck Creative Classroom Digital DIY files:

Tessellations: Geometry and Art in Islamic Tile Work; Syllabus pdf

Tessellations: Geometry and Art in Islamic Tile Work "Introduction to Islamic Tile Tessellation" (pdf and PowerPoint)

Activities:

Tessellations: Geometry and Art in Islamic Tile Work; "Translation Tessellation" (pdf and PowerPoint)

Tessellations: Geometry and Art in Islamic Tile Work; "Making Your Own Translation Tessellation Worksheet.pdf"

Tessellations: Geometry and Art in Islamic Tile Work; "Reflection Tessellation" (pdf and PowerPoint)

Tessellations: Geometry and Art in Islamic Tile Work; "Glide Reflection Tessellation Worksheet.pdf"

Tessellations: Geometry and Art in Islamic Tile Work; "Further Resources.pdf"