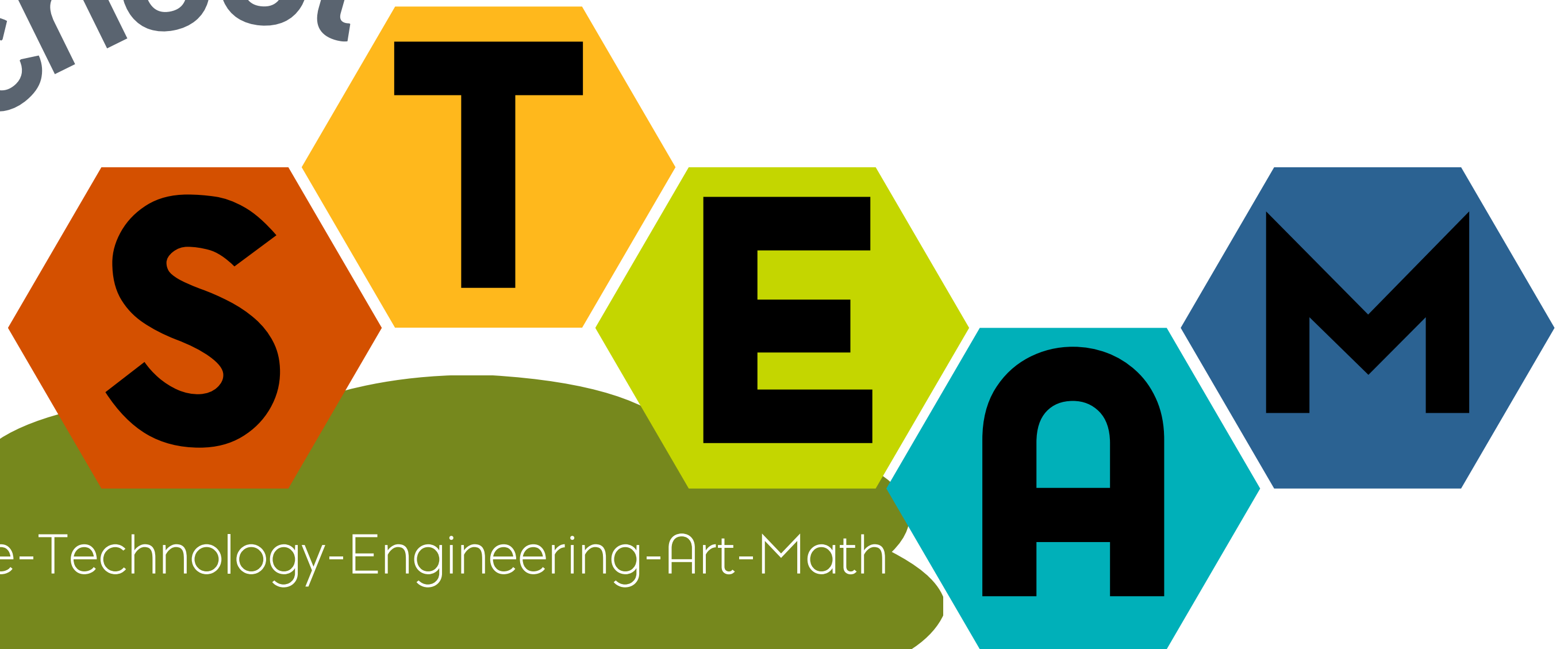


Preschool



Science-Technology-Engineering-Art-Math

Mondays

1:30-2:00 pm

Tuesdays

10:30-11:00 am

Registered Program

Ages 4-6

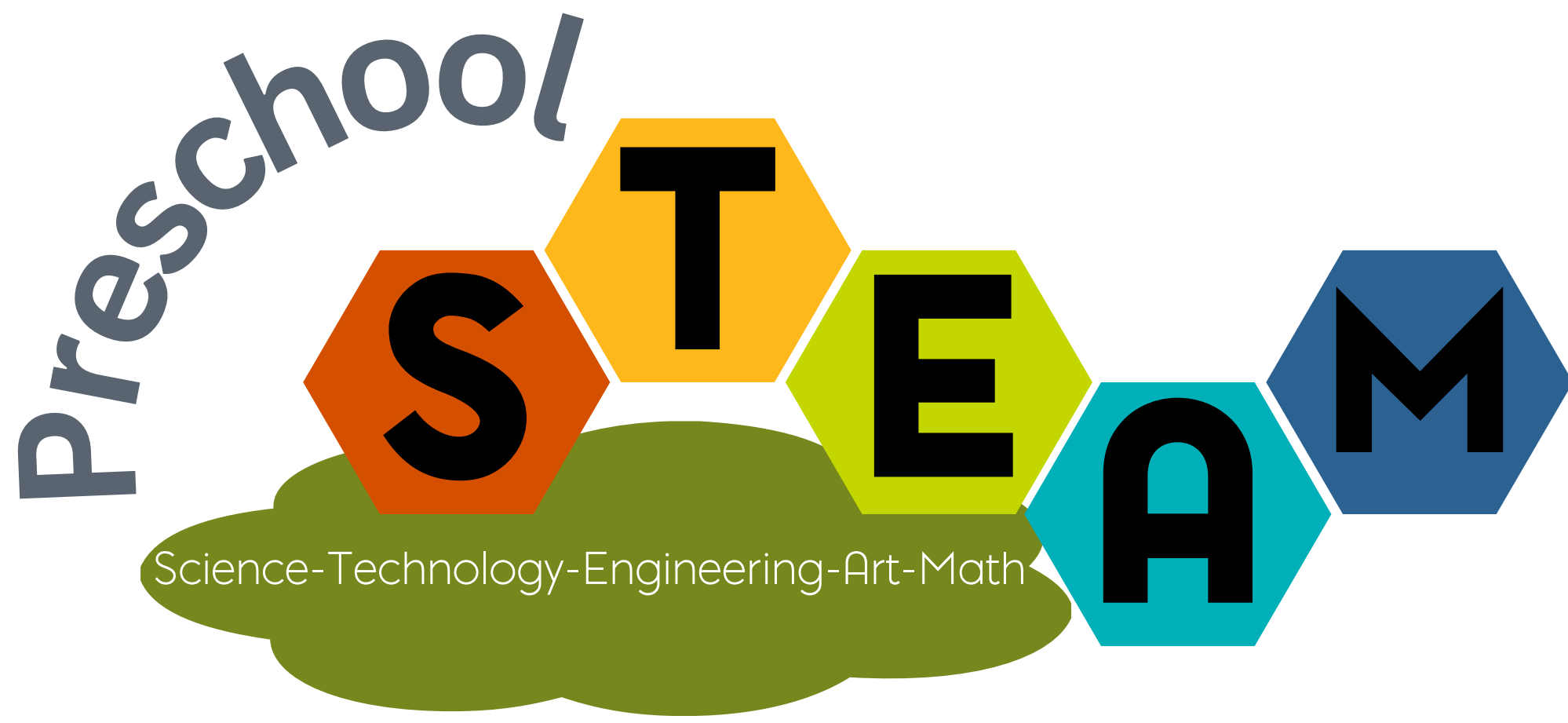
Linda Smith Story Room

Explore different parts of science, technology, engineering, art, or math in this 30 minute program. Each session focuses on a specific part of STEAM.

Check out our page on the Grande Prairie Public Library website for past activities.



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Yayoi Kusama, Pumpkin, 2024 © YAYOI KUSAMA. Courtesy Ota Fine Arts, Victoria Miro, and David Zwirner. Photo: George Darrell

Math and Art: Patterns

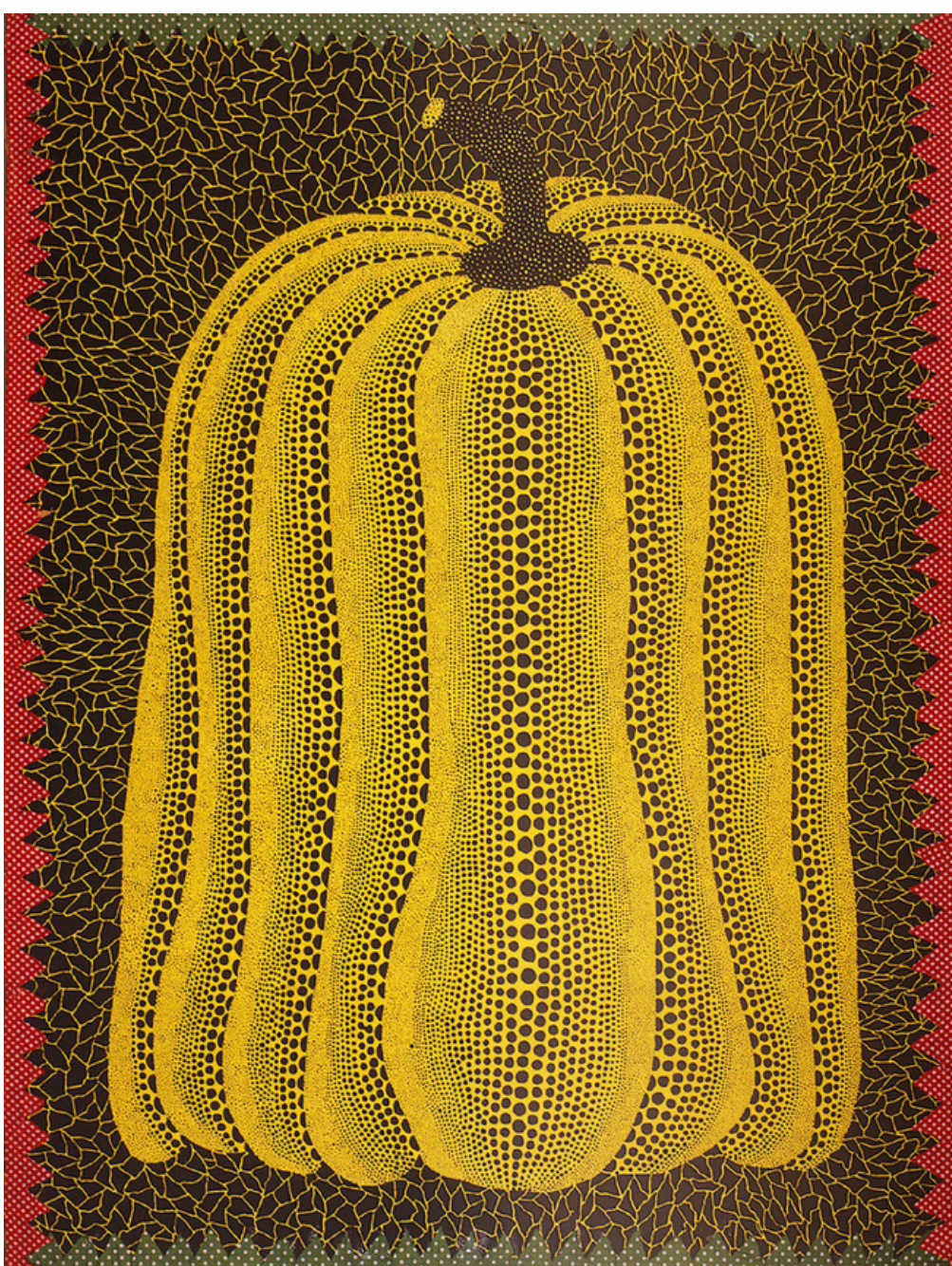
Yayoi Kusama

Kusama is a world-acclaimed artist. She is known for her repetition in patterns, use of polka dots, and love of pumpkins.

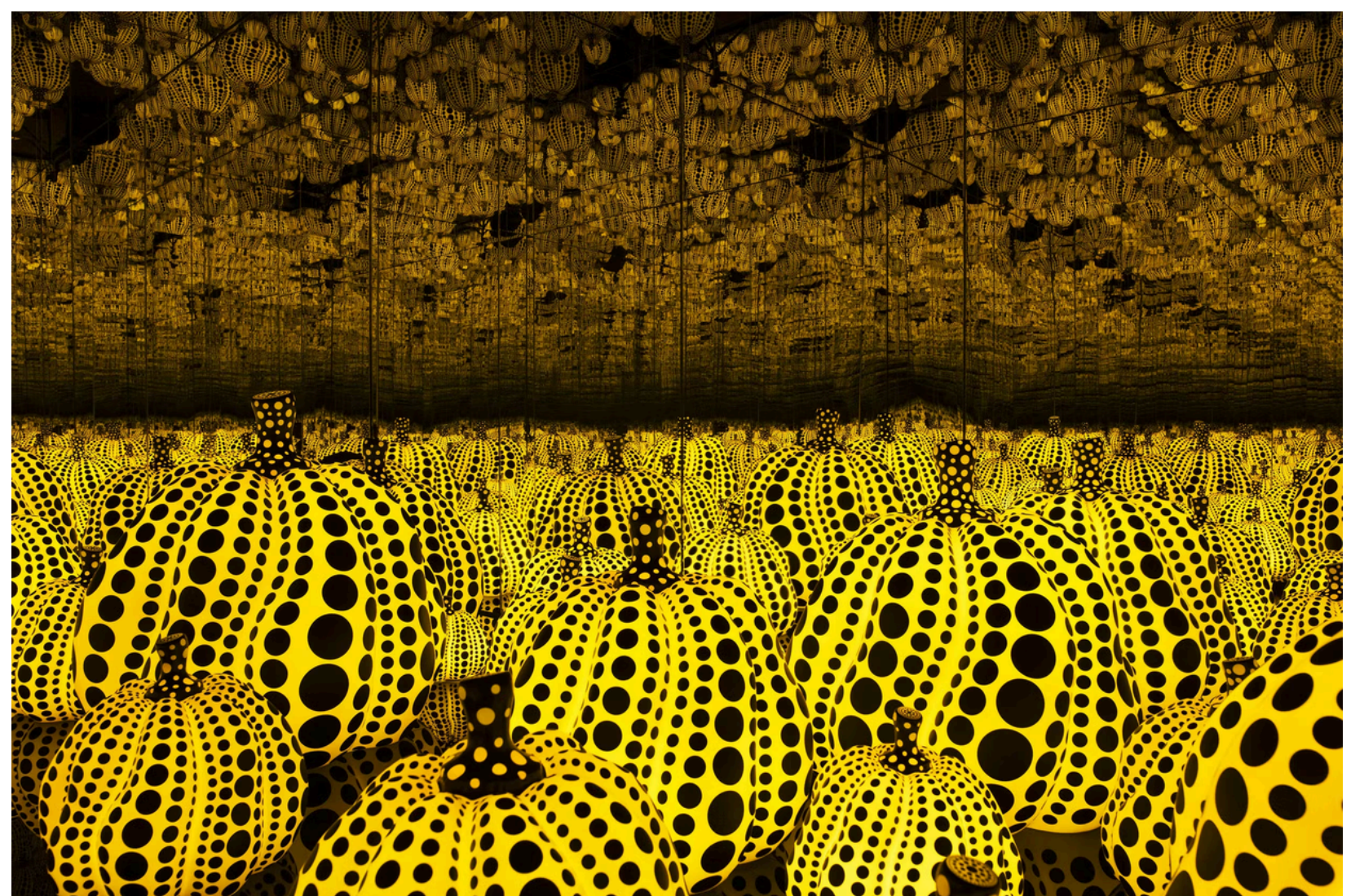
She often makes giant installations, where the walls and floor also have bold colours and patterns.



Yayoi Kusama, Kusama with Pumpkin, 2010 © Yayoi Kusama
Installation View: Aichi Triennale 2010. Courtesy Ota Fine Arts, Tokyo/ Singapore; Victoria Miro Gallery, London; David Zwirner, New York; and KUSAMA Enterprise

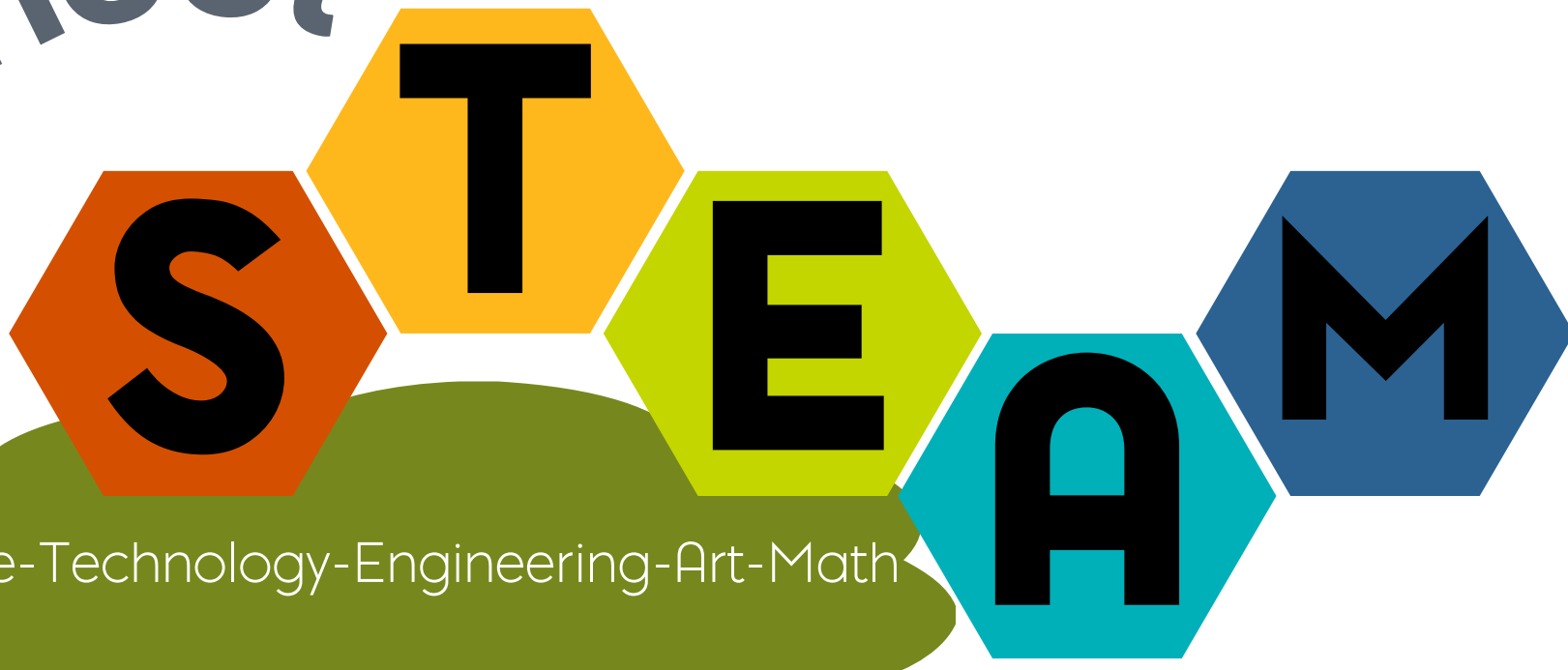


Yayoi Kusama, Pumpkin, 1981 © Yayoi Kusama. Courtesy Ota Fine Arts, Tokyo/Singapore, Victoria Miro Gallery, London, David Zwirner, New York



Yayoi Kusama, All the Eternal Love I Have for the Pumpkins, detail, 2016. Wood, mirror, plastic, acrylic, LED. Courtesy Ota Fine Arts, Tokyo/Singapore and Victoria Miro, London. © Yayoi Kusama.

Preschool



Science-Technology-Engineering-Art-Math



Math and Art: Patterns

Activity

- Drawing inspiration from Kusama, we're going to make our own patterned pumpkins.

Steps

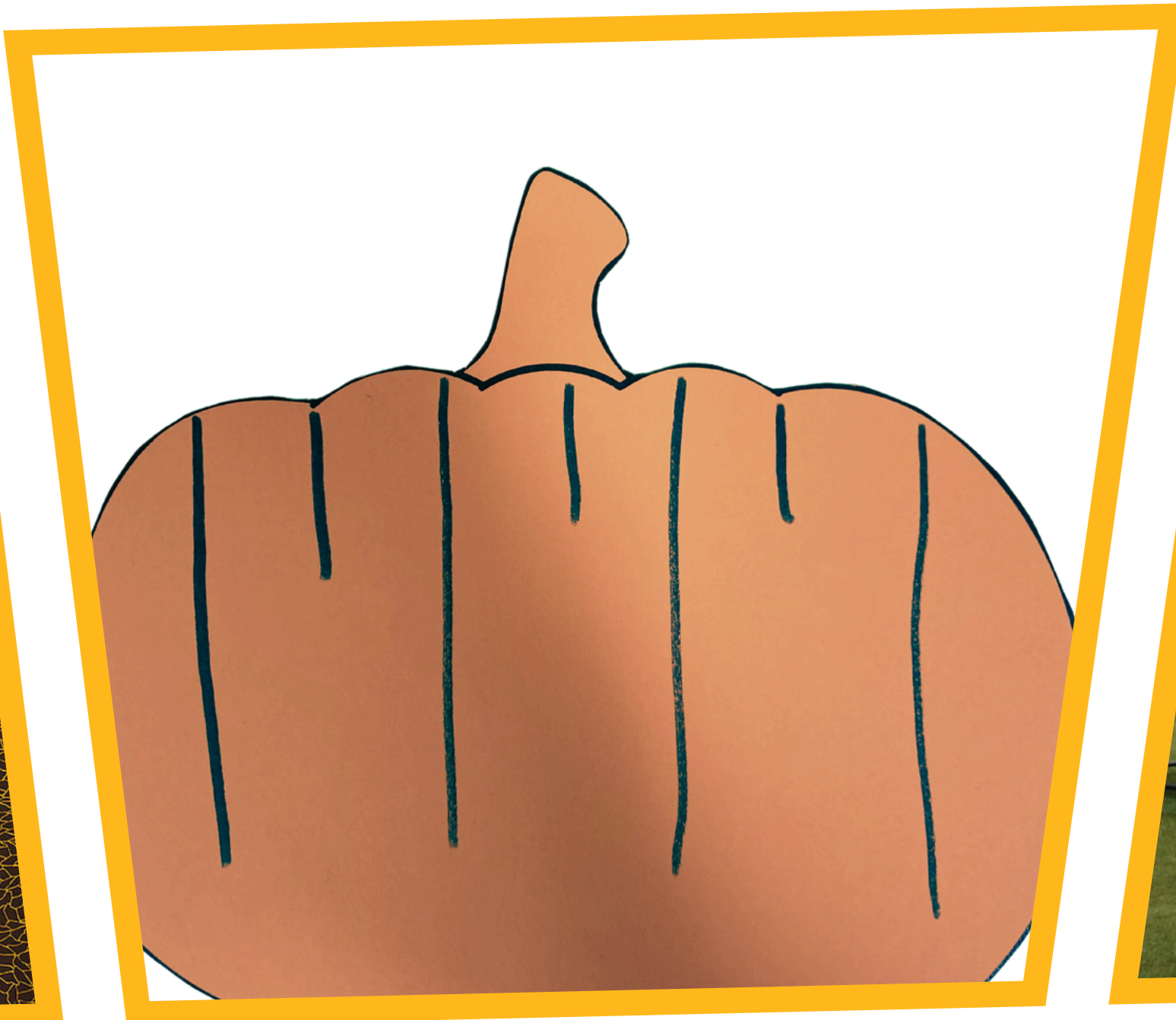
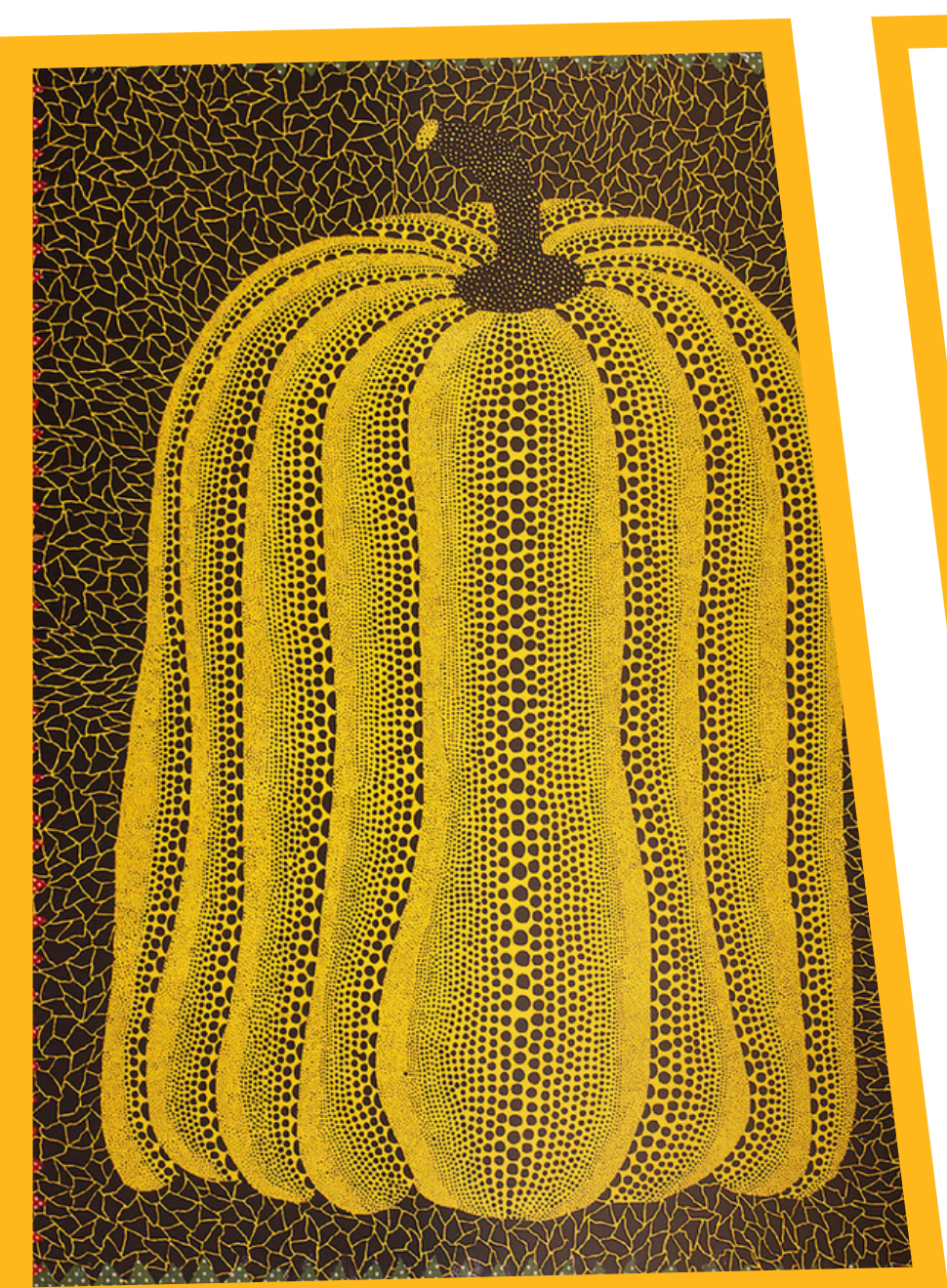
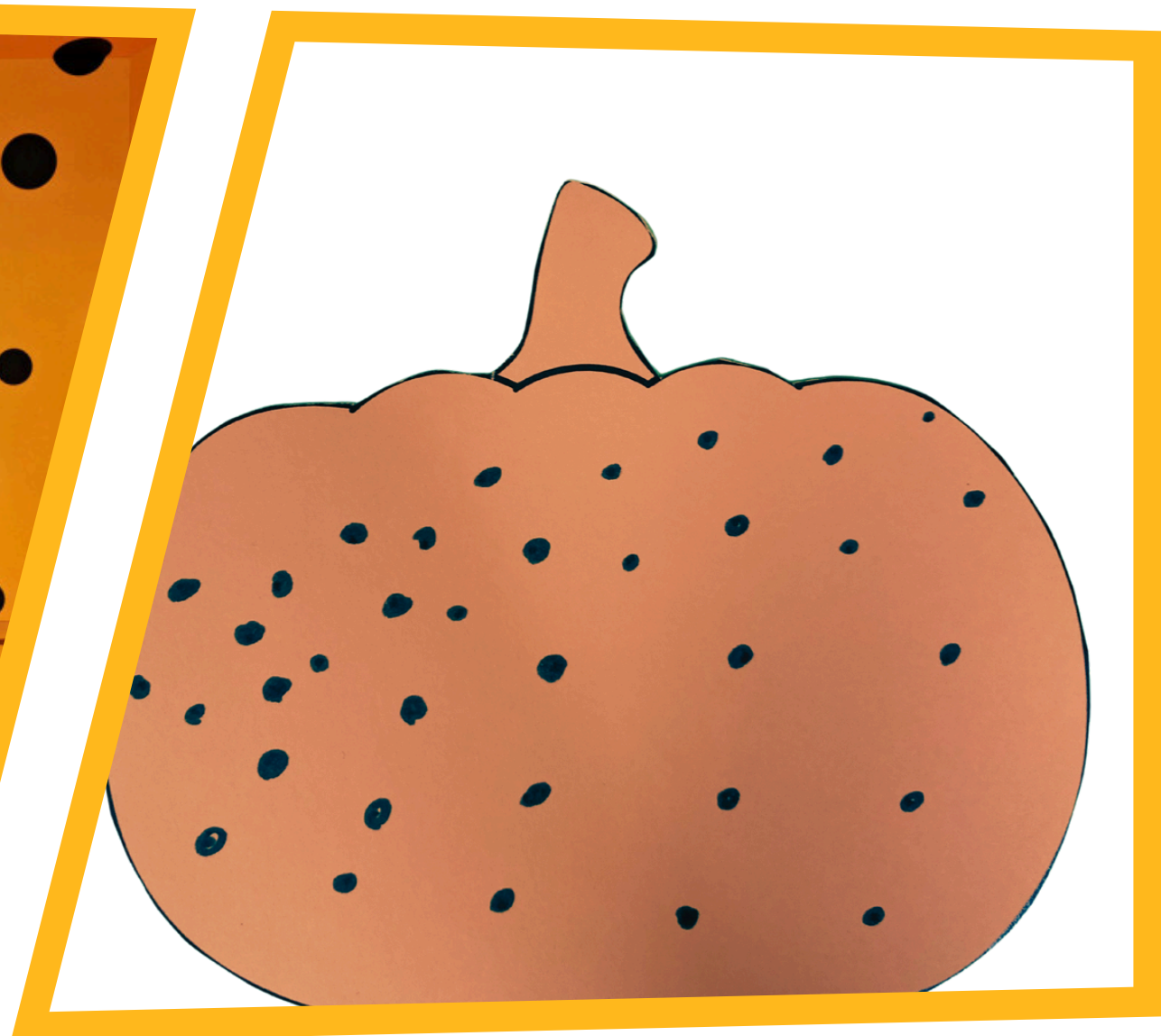
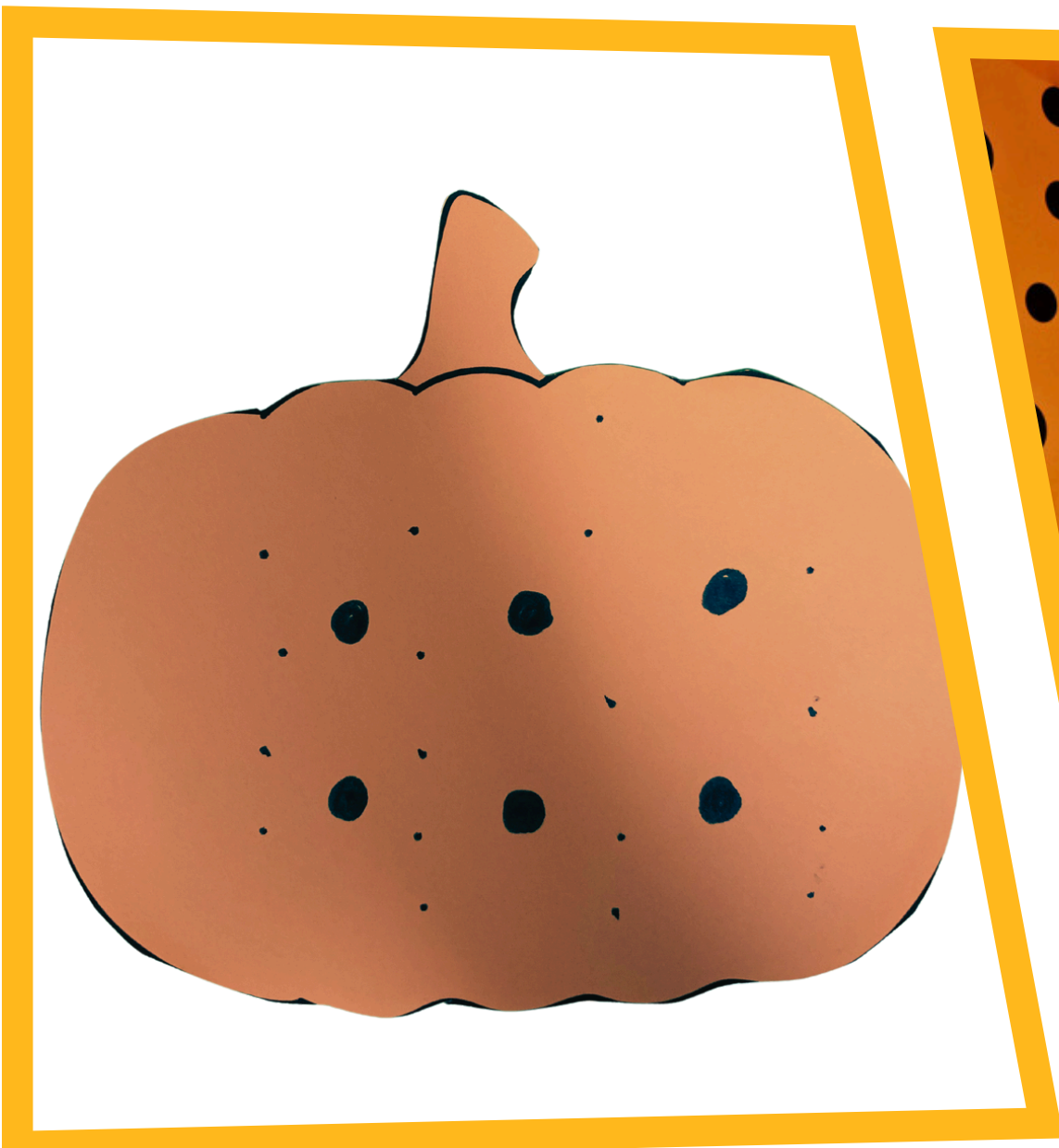
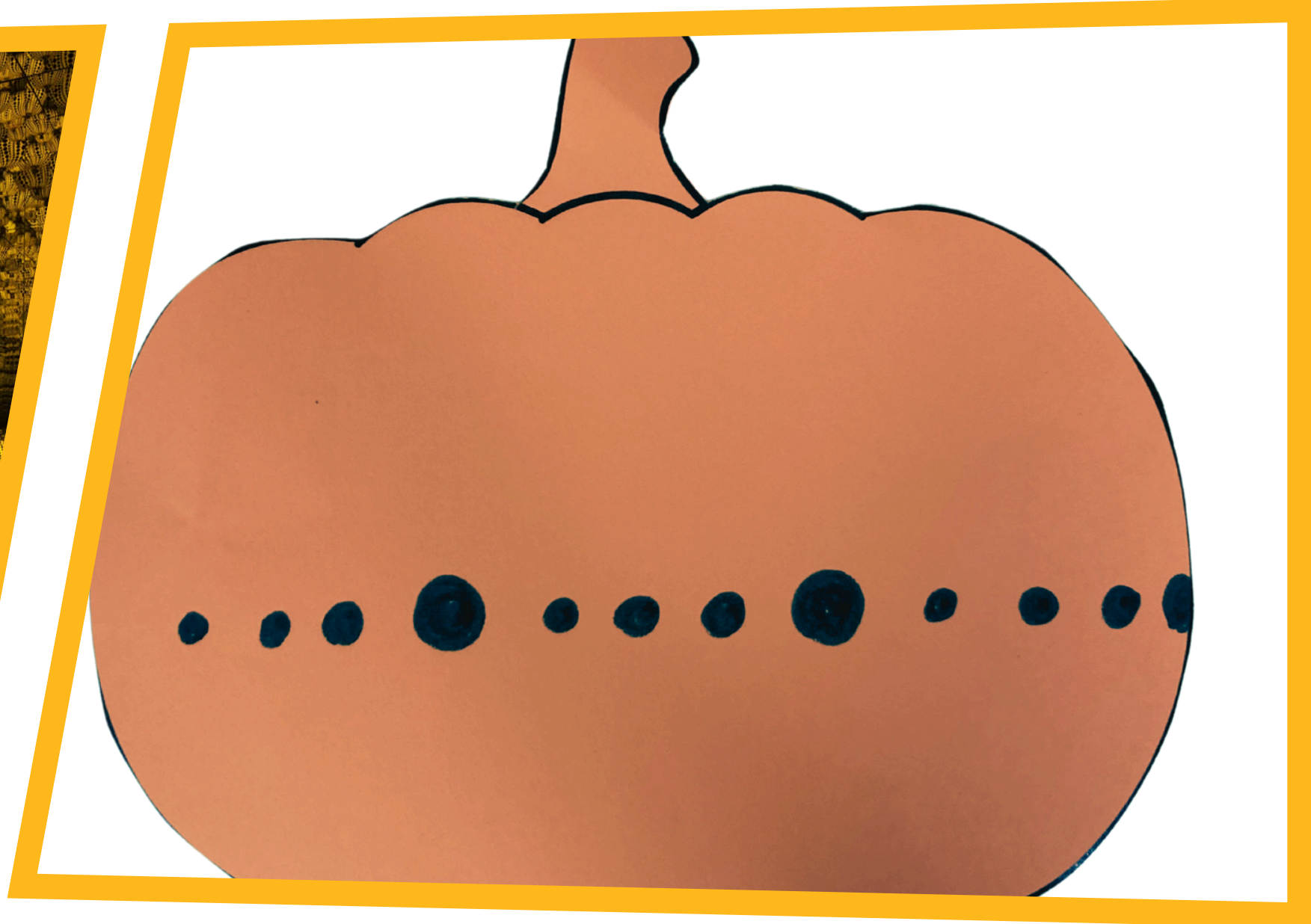
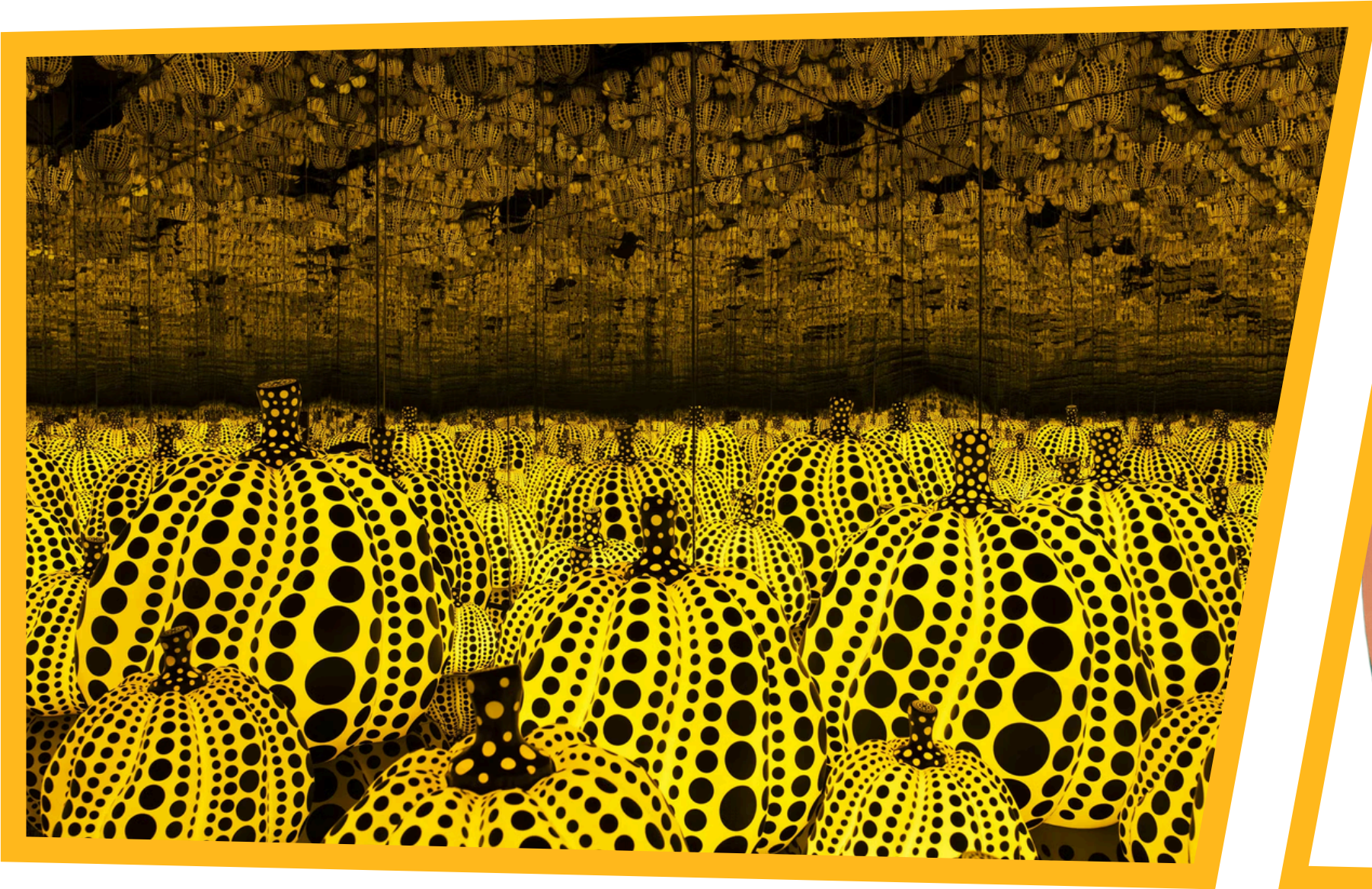
- Use a black marker to make patterns on the paper pumpkins

Books:

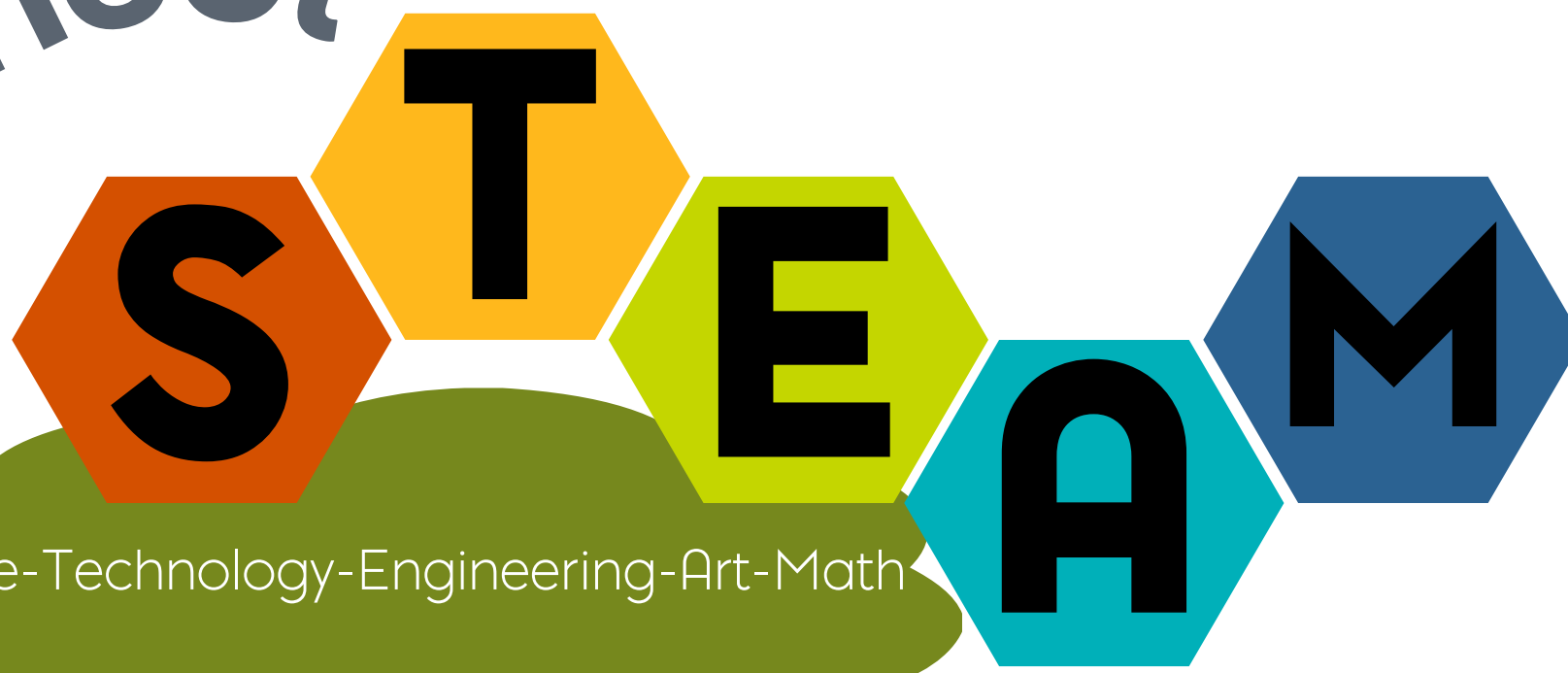
- *I See a Pattern Here* by Bruce Goldstone
- *Flow, Spin, Grow: Looking for Patterns in Nature* by Patchen Barss and Todd Stewart



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Preschool



Science-Technology-Engineering-Art-Math

Math and Art: Patterns



Further Learning

Patterns do more than just math! Pattern recognition is also important for coding. In coding, the commands are entered following a specific pattern in order to make the computer recognize them. Repeating patterns can also be “looped” so that you don’t have to type in all of the commands every time.

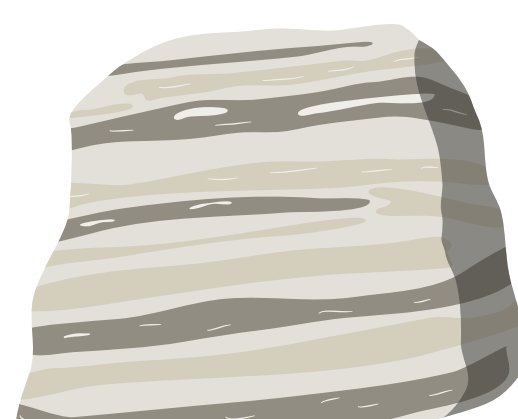
Patterns can be used in visual art to tie images together. Music uses patterns, like certain chords, in songs. Rhyming poems use patterns to decide which words need to rhyme.

Take a walk outside. What patterns can you see in your neighbourhood? In the trees and buildings? What about at a river? Do rocks have patterns?

From giraffe spots to ladybug dots, the rings inside of trees, the layers to sedimentary rock, the spread of frost, the swirl of storms and seashells, patterns are all around in nature.

Humans make patterns too. We use patterns in our stories and songs, in our poems and paintings, in our clothes and computers.

Draw the patterns you see. Put them in unexpected places, like zebra stripes on an apple picture.



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