

## Patterns Around You

### Inspiration:

- Glenview Historic Home: [hrm.org/glenview](http://hrm.org/glenview)
- Red Grooms' *The Bookstore*: [hrm.org/red-grooms-the-bookstore](http://hrm.org/red-grooms-the-bookstore)

**Ages:** 4–11 (Pre-K–Grade 5)

**Duration:** 20 minutes

### Materials needed:

- Paper
- Pencil
- Markers, crayons, and/or colored pencils

### Procedure:

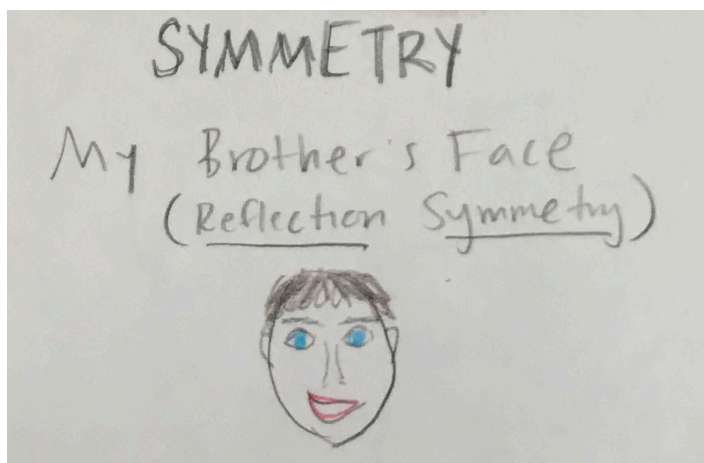
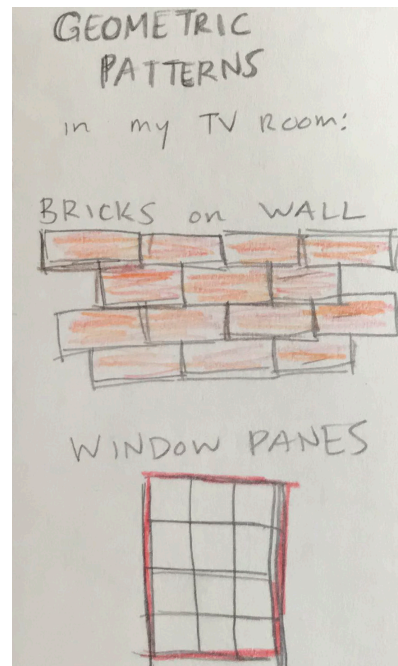
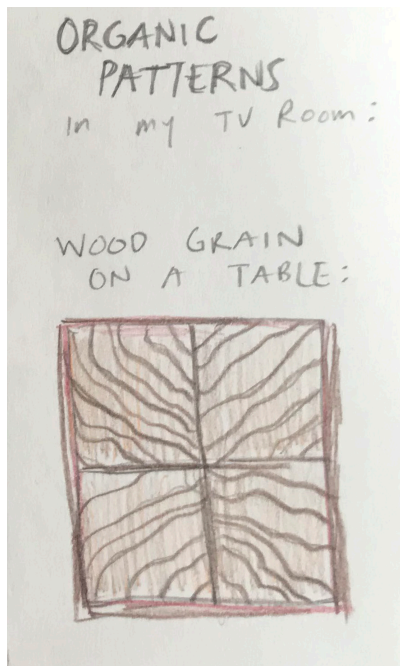
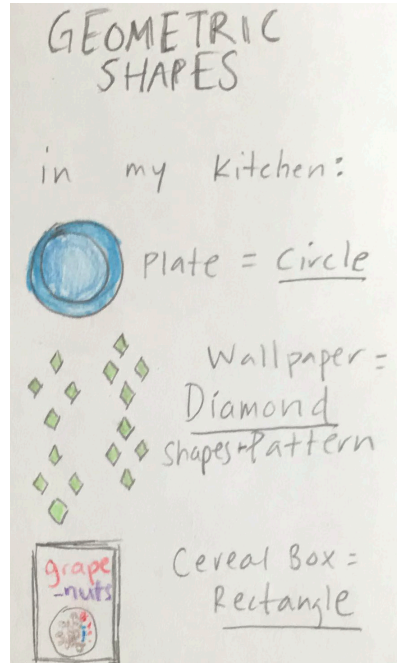
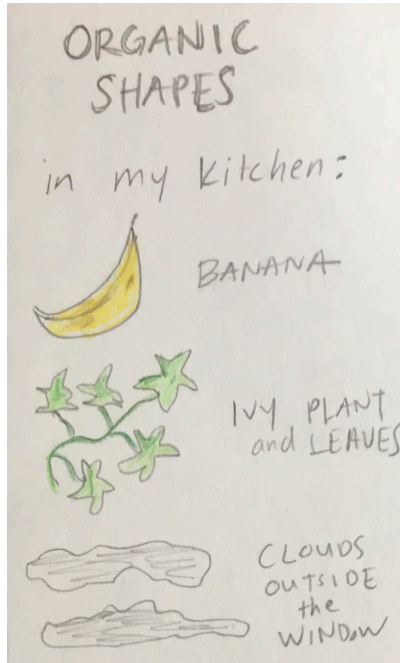
1. Explore your environment and hunt for patterns and designs.
2. Collect pattern data and record your findings on the activity sheet provided for your grade level (see pages below).
3. Once you find an example of each type of shape or pattern, draw or color what you find in the boxes on your sheet.
4. Don't forget to refer back to the glossary on the last page for any unfamiliar terms!

### Share your work:

Take a photo of your work and post it to Instagram using the hashtags #MuseumFromHome and #HRMPatterns, and tag the Hudson River Museum.



## Examples:



# Glossary

**Asymmetry:** Lack of balance or symmetry.

**Balance:** Harmony produced when elements are arranged evenly.

**Design:** An arrangement of lines or shapes created to form a pattern or decoration.

**Geometric pattern:** A series of geometric shapes (for example, square, circle, square, circle, etc.).

**Geometric shape:** Circles, squares, diamonds, rectangles, and any other shape that has lines, angles, and points.

**Grid:** A network of uniformly spaced horizontal and vertical lines (like graph paper!) that can help with creating a pattern over a large surface.

**Medium:** The materials that are used to create a work of art.

**Organic pattern:** A series of organic shapes (for example, leaves sprouting in a circle, or the petals on a rose, or branches of a tree).

**Organic shape:** Irregular shapes that are often found in nature and don't have perfect points and lines (for example, a drop of water, a leaf, a squiggly stick, etc.).

**Pattern:** A decorative design or natural design that is repeated.

**Reflection:** When a replica of an image is flipped and placed across from the original like a mirror image.

**Rhythm:** In music, the placement of sounds in time. Rhythm in visual art is a principle of design that suggests movement or action.

**Rotational symmetry:** When elements are arranged around a central point.

**Symmetry:** Balanced proportions matching in position, size, and shape positioned around a center line, axis, or point; repeated forms that follow one or more systems or rules.

**Tessellation:** Tiles or shapes that fit together perfectly without overlapping and without leaving any space between them.

**Translational symmetry:** A pattern repeated at even intervals along a straight line.

# Pattern Exploration: Pre-K & Kindergarten

Geometric Shapes

Organic Shapes

Geometric Patterns

Organic Patterns

Symmetry

# Pattern Exploration: Grades 1 & 2

Geometric Shapes

Organic Shapes

Geometric Patterns

Organic Patterns

Line Symmetry

Rotational Symmetry

Grid

# Pattern Exploration: Grades 3–5

Geometric Shapes

Organic Shapes

Geometric Patterns

Organic Patterns

Translational Symmetry

Rotational Symmetry

Tessellation

Grid