



This Module Contains

Engaging PowerPoint: A PowerPoint will guide you and your students through explorations and discoveries both virtually and in the classroom. Curriculum connections, resource links, extension and adaptation options, and hands-on activities with materials lists are included. Hyperlinks are embedded on slides to seamlessly access online activities, digital resources, works of art, and learning games. [Click here to access the image at mfah.org.](#)

Empowering resources: Inquiry-based learning PDFs are in the resources packet for easy download. Quality literature connections are included.

Equipping strategies: Higher-order thinking skills, habits of mind, and blended-learning tools are included in all lessons. Check the notes section below each PowerPoint teachers' guide for additional information.

Table of Contents

Engaging PowerPoint: MFAH Learning Through Art: Fernand Léger's *Man with a Cane* contains all of the following lesson components:

- Observation techniques for discovering the work of art
- Inquiry-based activities
- Detailed lessons for art, math, science, social studies, and language arts (Look for the specific subject-area icon on slides to quickly find the curriculum connections.)



- Hyperlinks to digital resources and mfah.org in the teachers' guide

Empowering Resources

These resources are referenced in the PowerPoint and in specific descriptions of engagement methods in the teachers' guide. Download the following activity sheets included in the packet.

- Making Thinking Visible
- Ten-point Drawing System
- I Spy Shapes, Line, and Angles
- Charlie's Angles Math Play
- STEAM Activity Léger
- Making Moving Art: Machines Around Us
- Poetry—Race to Rhyme in a Couplet or Quatrain
- The Art of Poetry
- The View

These related literature connections are also referenced in the teachers' guide, which includes hyperlinks to learn more. Check your school or local library for these books!

- *A Wreath, a Tree, and Me* by Rita Whiteman & LuAnn Turley
- *When a Line Bends . . . A Shape Begins* by James Kaczman
- *Shape of Things* by Dayle Ann Dodds
- *Shapes, Shapes, Shapes* by Tara Hoban
- *I Spy Shapes in Art* by Lucy Micklethwait
- *Tangram Magician* by Lisa Campbell
- *The Greedy Triangle* by Marilyn Burns
- *Little Blue and Little Yellow* by Leo Leonni
- *The Day the Crayons Quit* by Drew Daywalt

Equipping Strategies

Click on the following links for extensions to the lessons:

[Discussion questions online at Conversation Starters](#) at mfah.org

[Math Lesson: Dramatizing Shapes](#) at mfah.org

[Art Lesson: Discovering Shapes](#) at mfah.org

[Science Lesson: Finding Machines](#) at mfah.org

[ELA Lesson: Writing First-Person Narratives](#) at mfah.org

[Kahoot! Game: The ART of Poetry](#)

[BrainPop Shapes](#)

[BrainPop Simple Machines](#)

Materials List

Create “Shaperson” Art Project

2 pieces of 9 x 12 in. construction paper
Scissors
Glue
Pencil
Ruler
Traceable shapes

Create Crystalized Shapes

String
Plastic container or jar
Pipe cleaners (if you use colored ones, you don't need food coloring)
Borax
Pencil
Boiling water
Food coloring
Scissors

Create “Angular Art”

Construction paper
Pencil
Crayons
Ruler

Making Moving Art: Color Machines

3/16 x 7/8 in. spool
1 x 8 x 8 in. block of wood
3 eye hooks
1/4 in. hex nuts
1/2 in. hex nuts
#8 x 2 in. screw
6 x 6 in. white cardstock
String
Markers, glue

Create a Rotating Color Machine

2 primary colored markers
Cardboard coasters ([link to purchase](#))
Embroidery floss or string
Scissors
Ruler
STEAM Lab: Design Challenge Lab PDF (in Resources)

Various objects, which might include:

3 index cards
10 popsicle sticks
3 strips of 3 in. masking tape
6 paper clips
10 spaghetti noodles
2 cotton balls
3 rubber bands
1 straw
2 cups

Create your own work of art and share with us on Instagram by tagging us **#LearningThroughArtMFAH**.

Remember to tag your school or district!

Looking for additional resources?

Visit Ita.mfah.org and mfah.org/Itahome.

Questions? Send us an email: teachers@mfah.org.

The Learning Through Art program is endowed by Melvyn and Cyvia Wolff.

The Learning Through Art curriculum website is made possible in part by a grant from the Institute of Museum and Library Services.

Front: Fernand Léger, *L'Homme à la canne [Man with a Cane]* (detail), oil on canvas, the Museum of Fine Arts, Houston, gift of Mrs. Charles W. Engelhard, 84.197. © Artists Rights Society (ARS), New York / ADAGP, Paris