

Leonardo da Vinci was a scientist, artist, engineer, inventor, and mathematician. Use your own creativity and curiosity as you engage in **engineering and art-making processes** like da Vinci.

TRY THIS

Exhibit: Wind Table

Gather supplies from the da Vinci Workshop and explore how materials with different properties behave in the vertical air stream. What do you notice when experimenting with materials of different weight and thickness?

Use your observations to build something that can float or fly in the air stream and then test your creation. Does it behave the way you thought it would? What changes or adjustments do you want to make to your design?

TRY THIS

Exhibit: Workshop

The da Vinci Workshop encourages open-ended building and creating. For some inspiration, you can challenge yourself to:

- Make something with at least 3 different kinds of materials
 - Build something that has a moving part
- Create something that can roll from one end of the table to the other
 - Invent something that solves a real-world problem

If you have a plan for what you are building, share it with someone else. Experiencing trouble with your design? Identify the problem, and then think through ways to revise or change your approach, materials, or tools.

Dig Deeper

Reflect and communicate

What did you enjoy most about exploring different materials or methods for creating? What did you find challenging? How did you work through those challenges?

Make connections

Leonardo da Vinci spent his lifetime exploring the world around him and pursuing interests in a wide variety of subjects. Head to the *Water Gallery* to observe the flow of water like da Vinci, who studied the movement of waves and streams. Experiment with the properties of air in the *AirPlay Gallery*, as da Vinci did to inform his designs of flying machines. Visit *Discovery Woods* to practice looking closely at nature, a pursuit da Vinci found especially inspiring.

Explore more at home

Investigate together beyond the Discovery Museum. Continue asking questions, making observations, designing experiments, and predicting outcomes: Try looking in the recycling bin with fresh eyes. Turn clean recyclables into repurposed creations by combining them with other “leftovers” such as tissue paper remnants, fabric scraps, too-short pieces of ribbon and yarn, extra buttons, or construction paper bits.

As you and your child engaged with the exhibits in the da Vinci Workshop you may have explored concepts that are connected to the Massachusetts Science and Technology/Engineering Curriculum Frameworks and taught specifically in Pre-Kindergarten, Kindergarten, and Grades 2, and 4 through 7.