

Continuous Line Robots and Art

Make an acrostic!



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Make an acrostic!



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Make an acrostic!



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Make an acrostic!

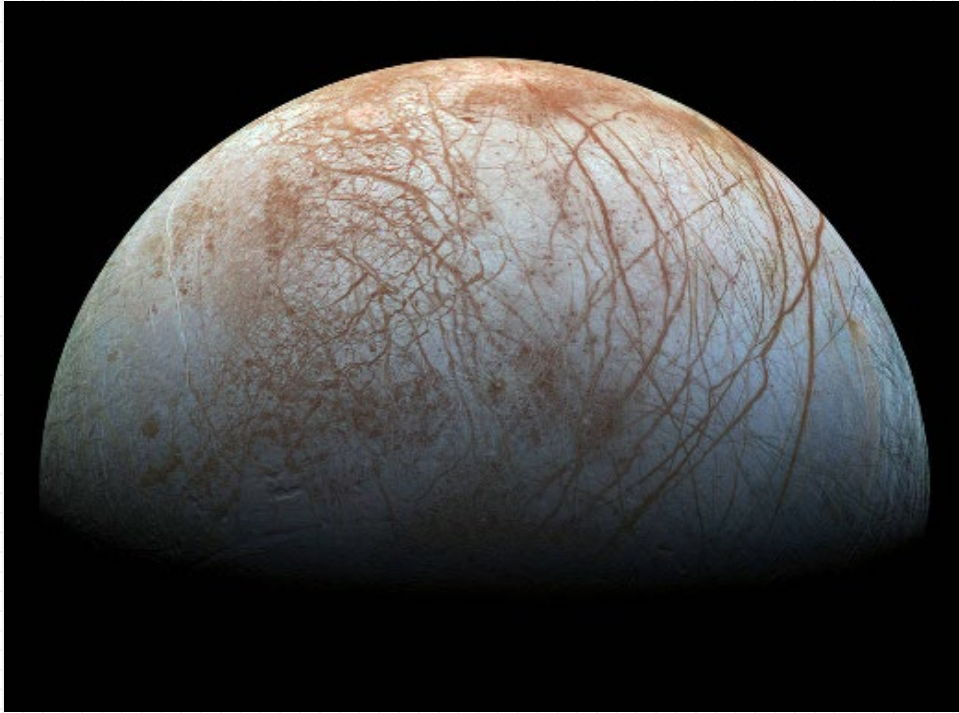


Image source: NASA/JPL-Caltech/SETI Institute

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Make an acrostic!

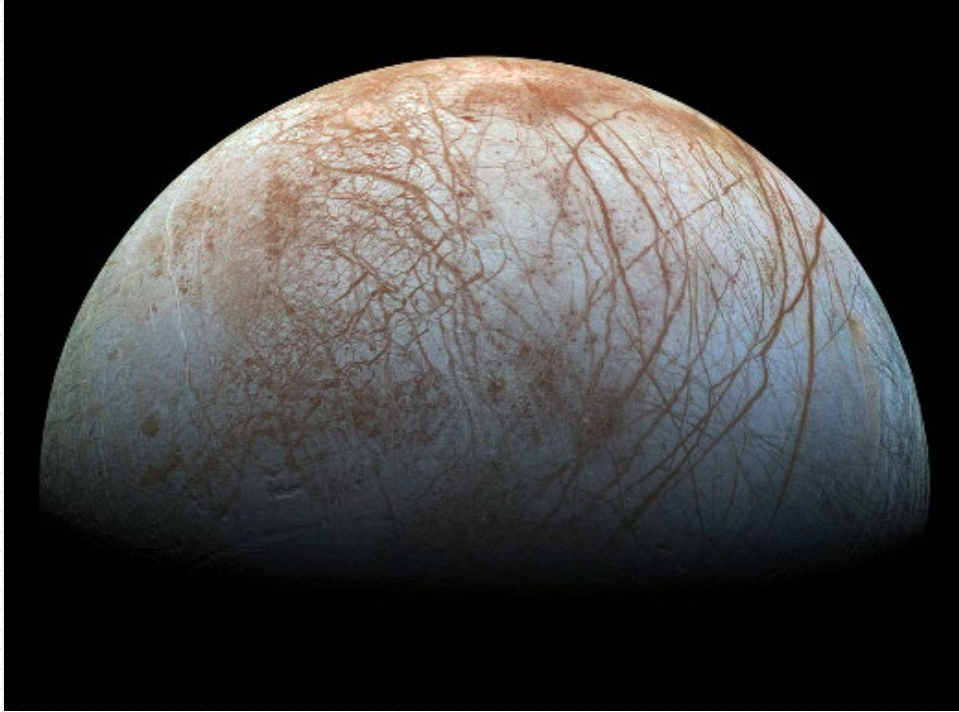
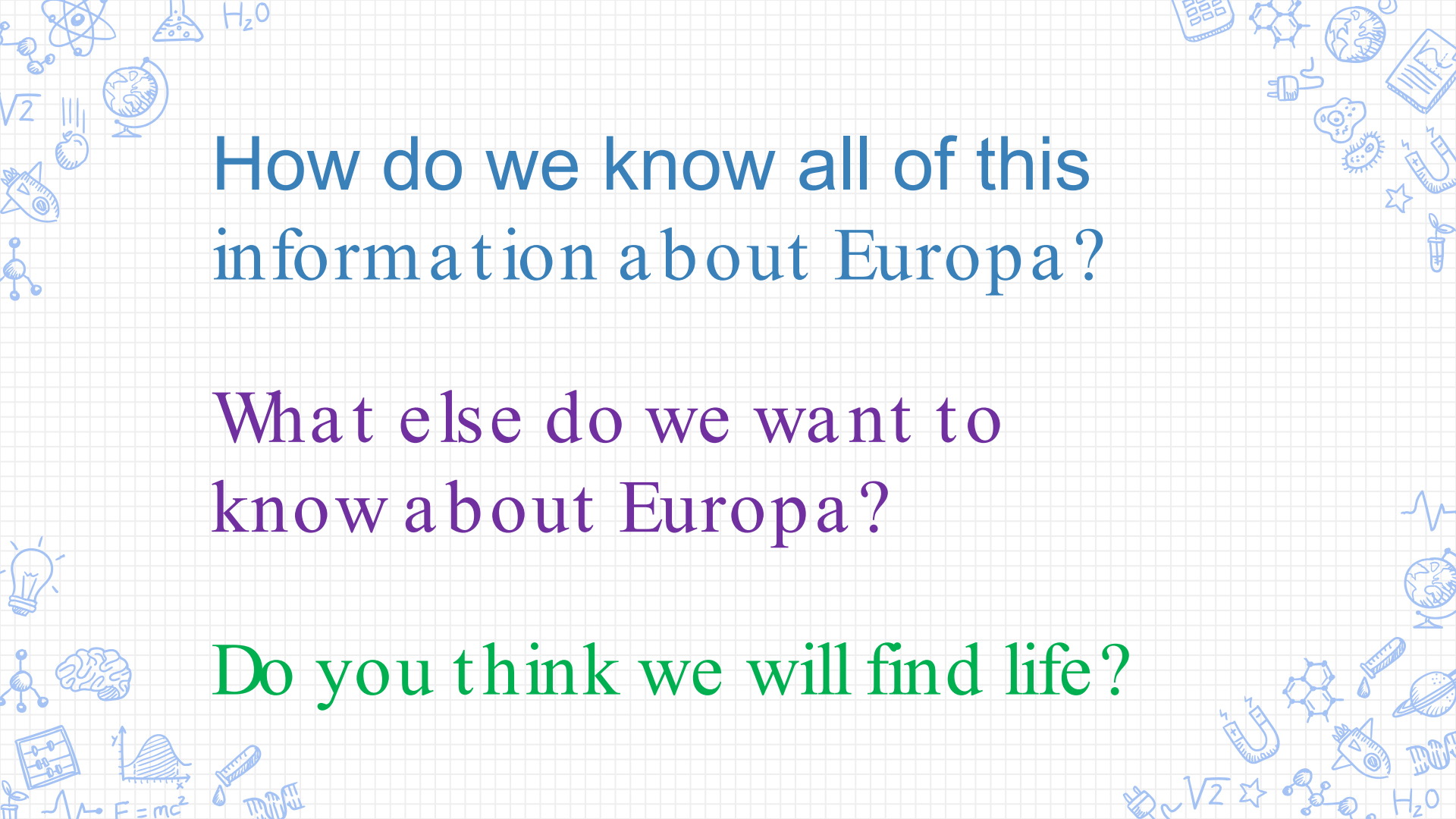


Image source: NASA/JPL-Caltech/SETI Institute

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NASA

A decorative border of various science and technology icons surrounds the text. In the top left, there are icons for an atom, a beaker with H₂O, a globe, a rocket, and a lightbulb. In the top right, there is a calculator, a molecular structure, a globe, a book, a plug, a microorganism, a star, and a test tube. In the bottom left, there is a brain, a graph, a DNA helix, and a rocket. In the bottom right, there is a magnet, a molecular structure, a globe, a rocket, a star, and H₂O.

How do we know all of this
information about Europa?

What else do we want to
know about Europa?

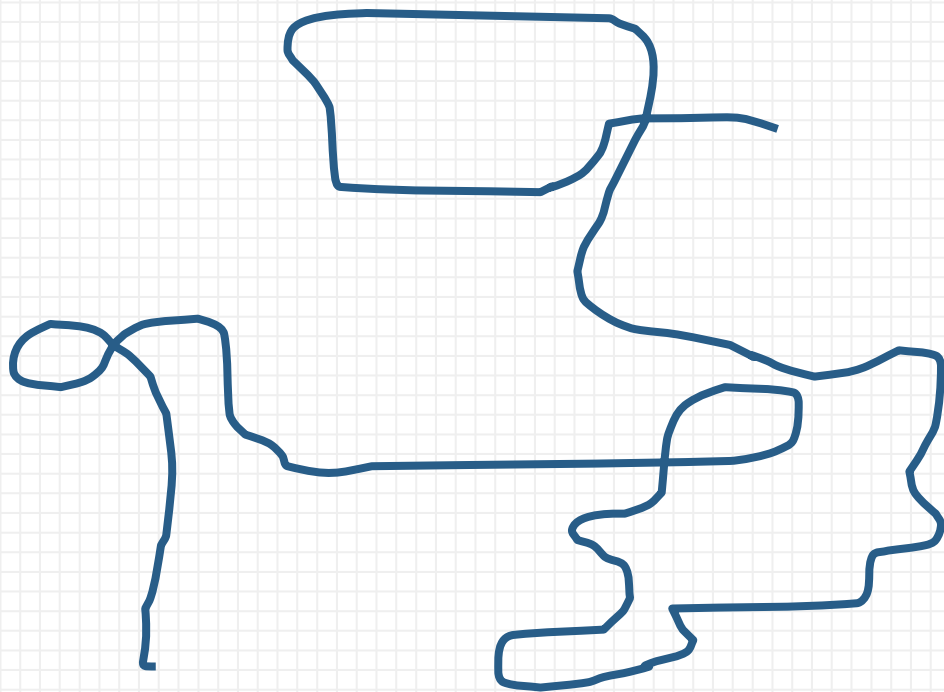
Do you think we will find life?

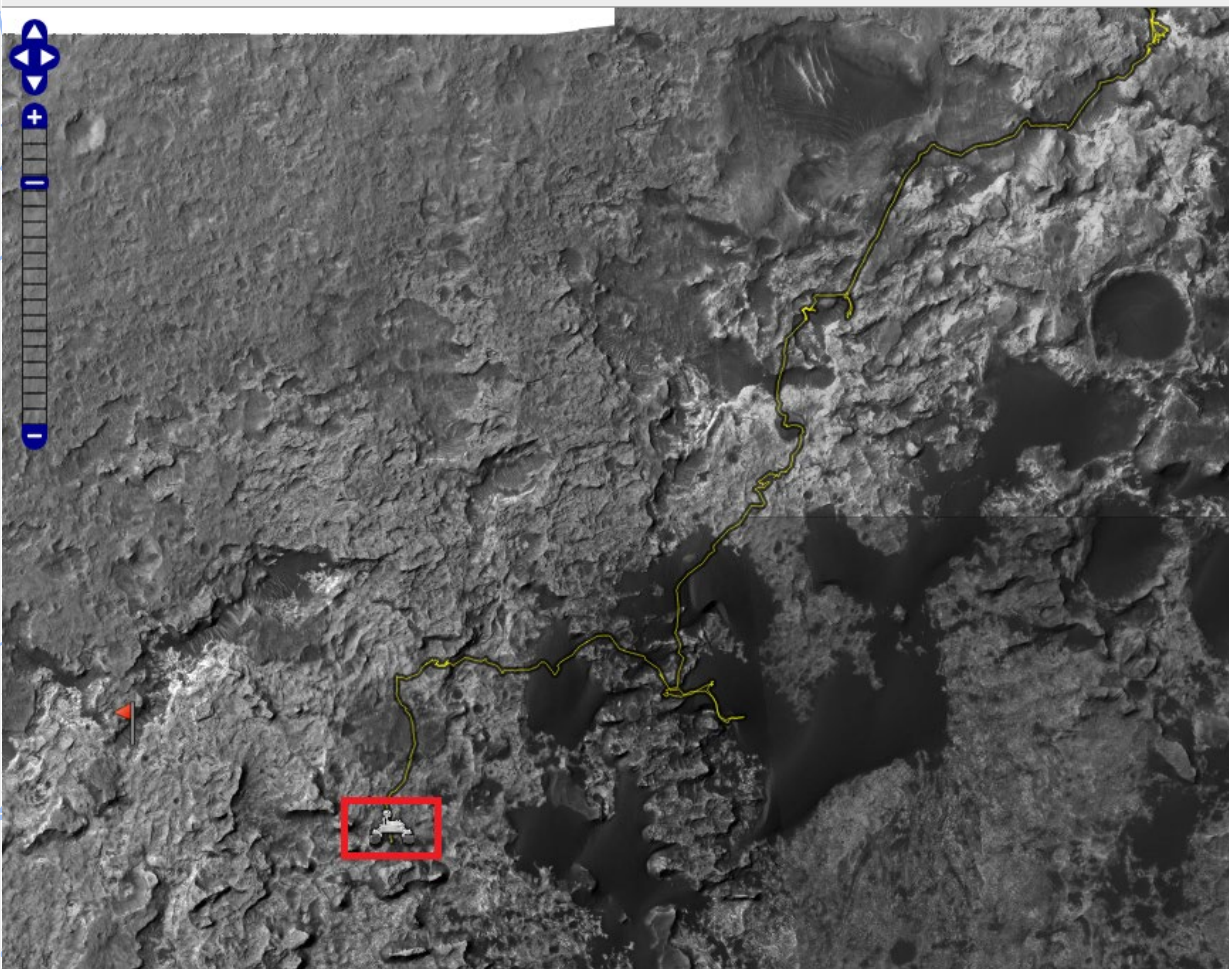
What did we do during
the robot activity?

Why did we do the
robot activity?



Our little robots are little artists!





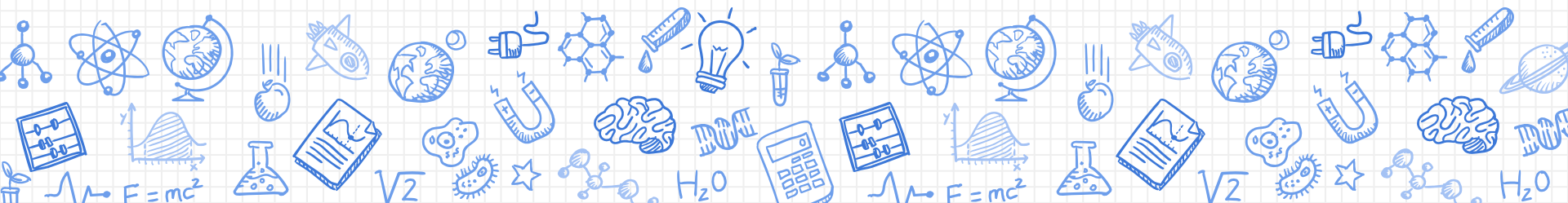
The Mars
Curiosity Rover
is a little artist!

← Look at the
path it has
taken so far!

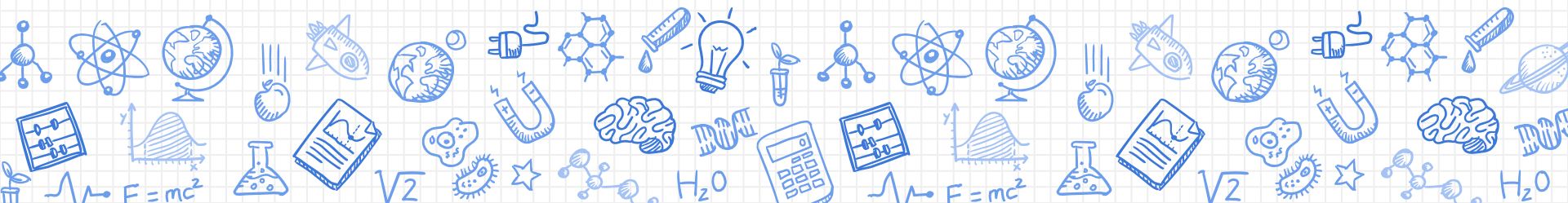
In **math**, a line is the connection of two points.

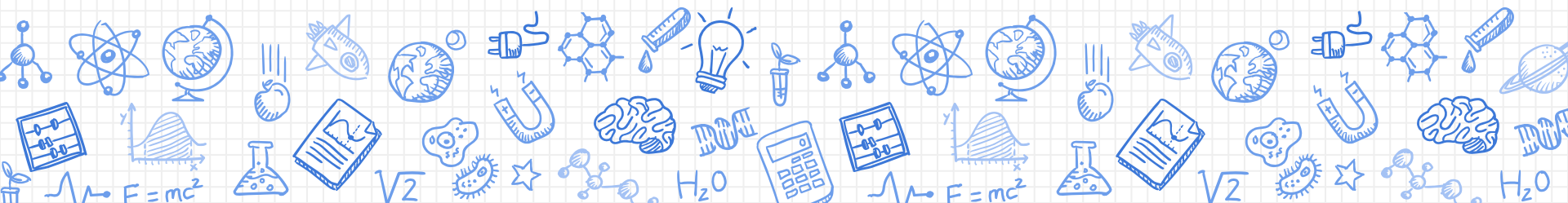
In **art**, a line is a point moving through space.

The robot created a continuous line as it traversed the maze.



100%







Pablo Picasso!

One famous collection of art is Picasso's **continuous line drawings**.

Pablo Picasso was a famous Spanish artist who lived from 1881-1973.

He was talented in many forms of art, including painting, sculpture and writing.

He created 20,000+ works of art in his life!



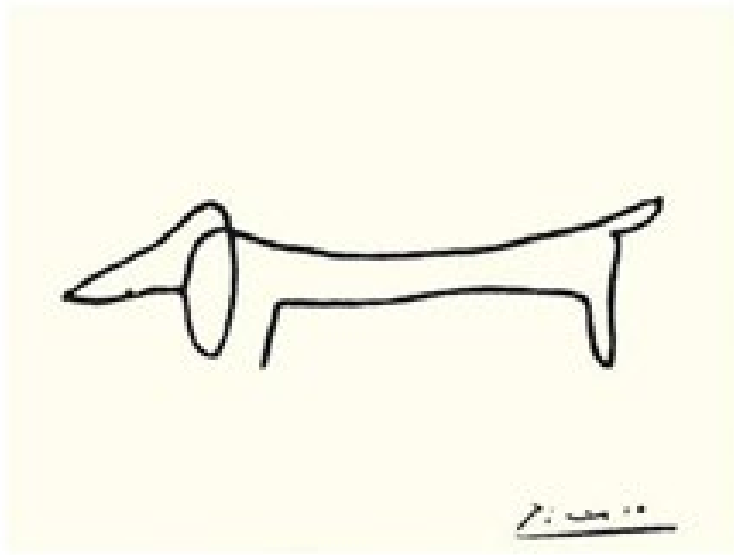
Pablo Picasso in 1908

© RMN-Grand Palais (Musée Picasso de Paris)



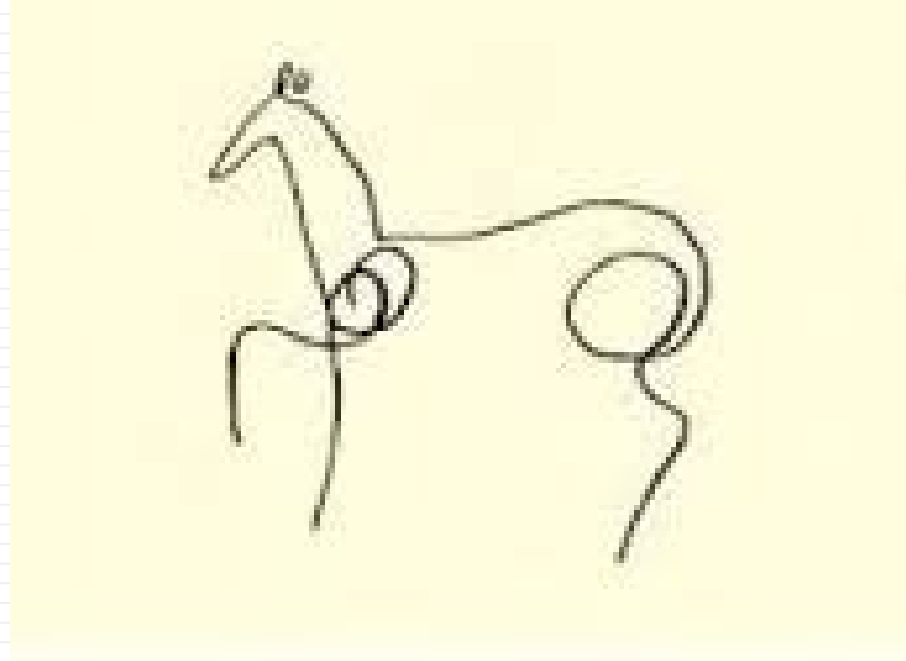
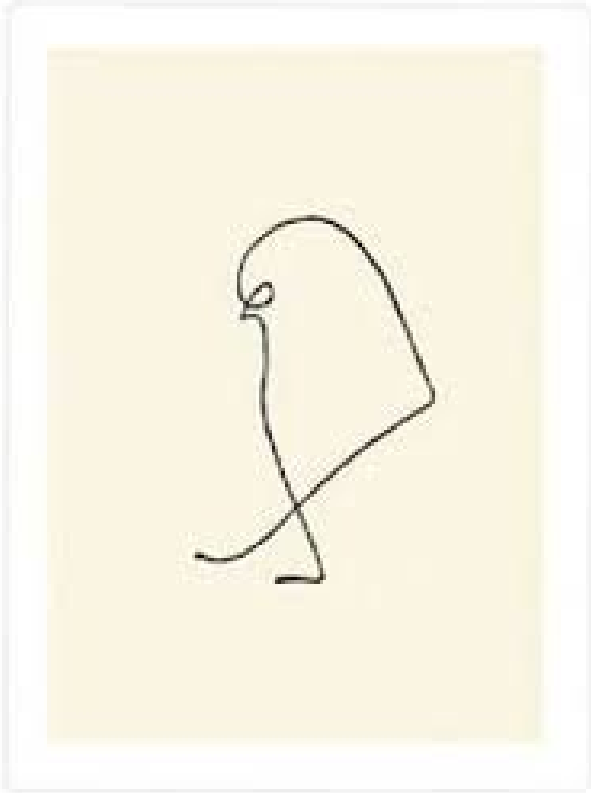


Picasso's Continuous Line Drawings



Pablo Picasso, 1907 public domain

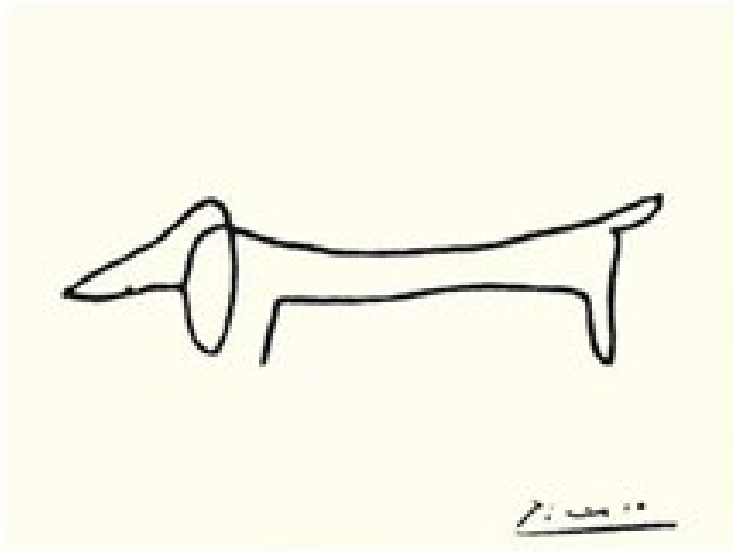
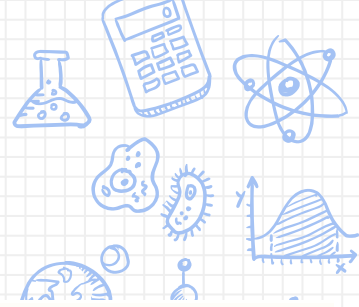
Picasso's Continuous Line Drawings



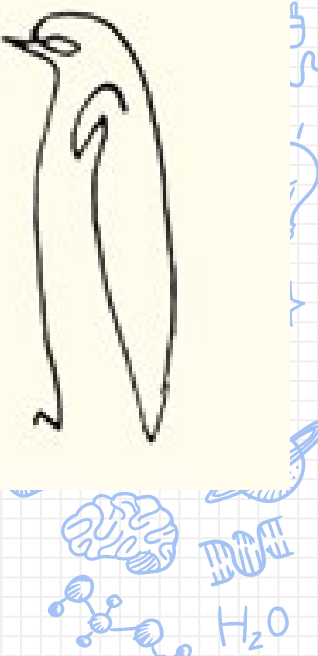
Pablo Picasso, 1907 public domain



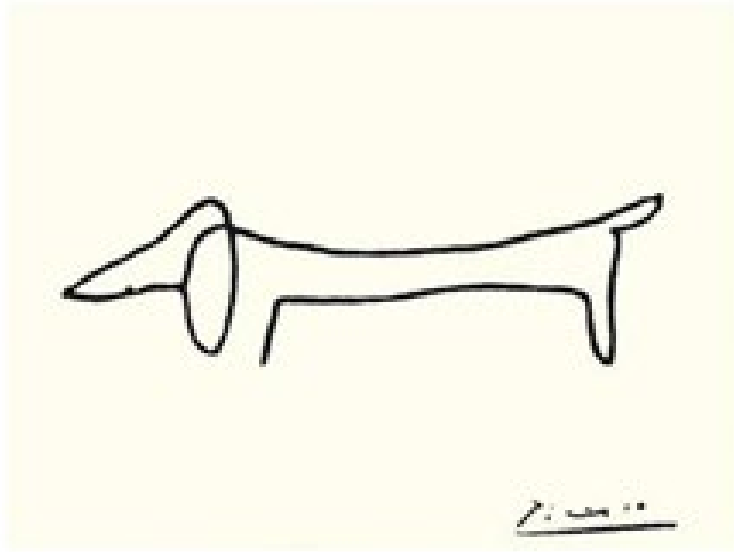
Try it on your paper!



Pablo Picasso, 1907 public domain



Try it with your opposite hand!



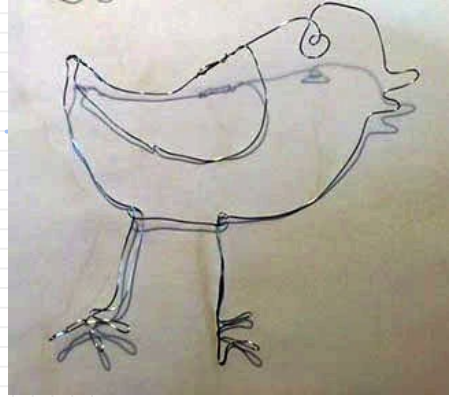
Pablo Picasso, 1907 public domain

Make an original!

Create your own continuous line drawing on your paper.

When you are happy with it, use the flexible wire to make a sculpture of it.

- Tape one end of the wire to the starting point of your drawing.
- Using your drawing as a guide, trace the drawing by bending the wire along with the direction of the line.



Please do not use the wire as a poking device. Even though the wire is coated in plastic and is not sharp, please use it only for its intended purpose.

Remember, to make it continuous, do not break the line!

[illegible]

- Define a line.
- Who was Pablo Picasso?
- Do you think this art lesson connected to the robot activity? Why or why not?
- How does engineering relate to art and aesthetics?
- In what other earth science topic do you think we could connect the idea of continuous line drawings?
- What stuck with you today, or made you think?
- Did you like today's activity? Why or why not?