

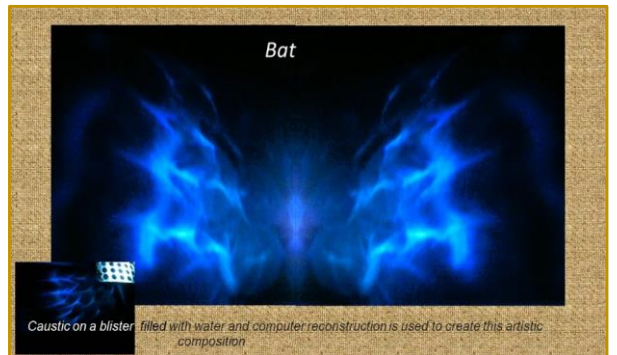
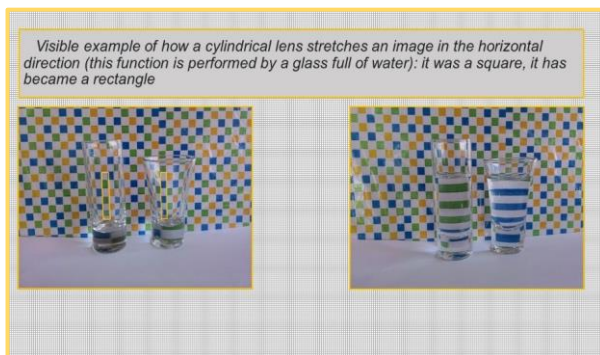
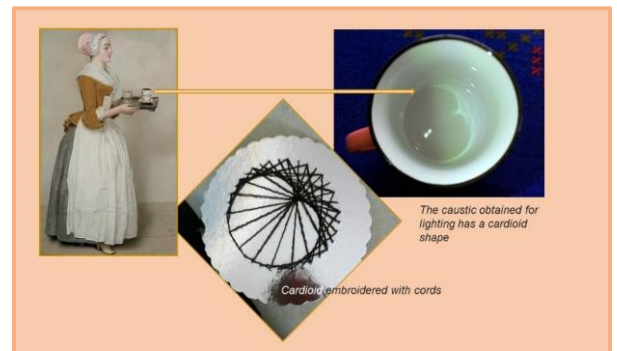
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Secrets of a glass of water

(observation of a 7th-grader on canvas)

The optical illusion in Jean-Etienne Lyotard's painting "The Beautiful Chocolatier" prompted a complex investigation involving elements of geometrical optics, mathematics, architecture, embroidery and artistic photography. While working on the project, we focused on two objects depicted by the artist on the canvas: a glass full of water and a cup with chocolate.

- Through them we got acquainted with: such an interesting device, what is a **Cylindrical lens** and investigated its properties;
- the optical effect, such as **Caustic** and considered different images of caustic;
- a mathematical curve such as **Cardioid** and managed to model it with embroidery.



Conclusion: The project helps the teacher to show the students the unity of the world, to allow the students to discover the familiar in the newly seen and the unusual - in the familiar.