

Geometry is all around us



11-12

45 m

LEARNING OBJECTIVES

- Identify geometric shapes
- Learn how to apply existing knowledge to generate new ideas, products, or processes.

MATERIALS NEEDED

- Video projector
- Paper
- Crayons, geometry tools
- Laptops/ computers with internet access
- [Video: "Why and What do We Study Geometry?" from Lovelyn Huong Siew Ling YouTube Channel](#)
- [Video: "#Geometry In Daily Life# | Application Of Mathematics | English" from All In One YouTube Channel](#)

LEARNING SCENARIO AND ACTIVITIES PROPOSED

1) Introduction (15 minutes)

For many of your students, geometry is purely and solely used and heard of in Math. It is something they learn in school and is often set as homework. Most students only see the relevance of geometry in the classroom. It's important for students to gain an insight into the world of geometry and our everyday lives in our natural and man-made world. Geometry is used in various daily life applications such as art, architecture, engineering, robotics, astronomy, sculptures, space, nature, sports, machines, cars, and more.

Make students watch this video: ["Why and What do We Study Geometry?" from Lovelyn Huong Siew Ling](#) and talk about the uses of geometry for their experiences, exchange ideas, then watch the video ["#Geometry In Daily Life# | Application Of Mathematics |](#)

[English” from All In One YouTube Channel](#). The teacher explains some geometrical concepts.

2) Practice (10 minutes)

Ask the students to draw their dream house, dream garden and dream car and then name the geometric elements used in their drawings. The drawings are exposed for all the students to see and comment on.

3) Production (20 minutes)

Working in small groups, students will create a collage showing examples of the use of geometry in art, architecture, engineering, sculptures, nature, sports, machines and cars. They will also write a summary of their collages, highlighting examples of geometric shapes and principles.

Students could also be asked to find a Tiktok, Youtube or Instagram video explaining a geometry concept the were assigned. This could be done in class or given as a homework task.

EXPECTED DIFFICULTIES AND PROPOSED SOLUTIONS

- Hesitation to work in a group, some students can be shy and find difficult to express their opinion in the group, the teacher encourages them and allows them to choose the group in which they feel accepted.

ASSESSMENT

- Use the Kahoot tool. Using a combination of multiple choice, true or false, open-ended, and/or puzzle question types, you can go through a series of questions in which you review the content on geometric shapes while gaining a barometer of where students are in understanding the concepts. Students will also be able to earn points. This will make a much more exciting alternative to completing a practice worksheet.

BIBLIOGRAPHY

- Singh M. (2022, July 29). "10 Examples of Geometry In Real Life To Understand It Better. Number Dyslexia. <https://numberdyslexia.com/geometry-examples-in-real-life/>