CLIXO
Classroom

Numbers with Clixo

Activity Guide

Online Activity Page

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Overview

Students use Clixo pieces to construct numbers, enhancing their understanding of geometric shapes and spatial reasoning. The activity begins with an introduction to Clixo pieces and basic shape concepts, followed by an exploration where students freely create, and build assigned numbers using templates and examples.

Objective

Students will enhance their understanding of shapes and numbers through hands-on exploration and creativity.

Materials for Each Student

- Clixo pieces (enough for each student or group)
- Number templates (printed on paper)
- Blank paper
- Markers
- Timer (optional)

Ages

Grade 1-3

Duration

30-60 mins

Skills

- STEAM
- Spatial awareness
- Spatial reasoning
- Fine motor skills
- Number sense

Introduce

1. Introduction (5 minutes):
   - Begin by introducing the lesson topic: "Today, we're going to explore how to create numbers using Clixo pieces."
   - Explain the relevance of the activity in integrating STEM and math skills.
2. Warm-up Activity (10 minutes):
   - Engage students in a brief warm-up activity to familiarize them with Clixo pieces.
   - Allow students to freely explore and manipulate the Clixo pieces to build simple shapes and structures.
3. Number Recognition (10 minutes):
   - Display the number templates on the whiteboard or chart paper.
   - Guide students in identifying and naming each number.
   - Discuss how each number is written and how many it stands for.

4. Demonstration (10 minutes):
   - Choose a number and demonstrate how to construct it using Clixo pieces.
   - Emphasize the process of connecting the pieces to form the shapes of the numbers.



Build & Create

1. Guided Practice (15 minutes):
   - Divide the class into small groups or pairs.
   - Distribute the number templates to each group.
   - Instruct students to use Clixo pieces to recreate the numbers they see on or alongside the templates.
   - Circulate the classroom to provide assistance and guidance as needed.
2. Independent Practice (10 minutes):
   - Provide each student with a blank piece of paper and markers.
   - Encourage students to choose a number and create it independently using Clixo pieces.
   - Students can then label their creations with the corresponding number using paper and markers (reminder to not draw on the Clixo pieces).



Share & Reflect

1. Share & Reflect (5 minutes):
   - Gather the students together and invite volunteers to share their creations.
   - Encourage students to describe their process and explain how they used the Clixo pieces to build their numbers.
2. Closure (5 minutes):
   - Recap the lesson by highlighting key concepts learned, such as number recognition and creative construction with Clixo pieces.
   - Connect the activity to the ISTE and Common Core standards by discussing how students used Clixo pieces to solve problems creatively, communicate their ideas, and apply knowledge of numbers.

Tips

- Encourage students to work together and share their ideas with one another.
- Explore other creative possibilities with Clixo pieces, such as building 3D shapes or structures.
- Challenge students to create simple math equations using Clixo pieces.
- Practice math vocabulary by using the Clixo piece names to explain their building process.

Educational Standards

CCSS MATHEMATICS

CCSS.MATH.CONTENT.K.CC.A.3
Write numbers from 0 to 20. Represent a number of objects with a written numeral 0–20 (with 0 representing a count of no objects).

ISTE STANDARDS FOR STUDENTS

Innovative Designer
Students use a variety of technologies to explore and solve problems creatively.

Creative Communicator
Students create original works and ideas using technical and digital tools.

Computational Thinker
Students develop and employ strategies for understanding and solving problems.

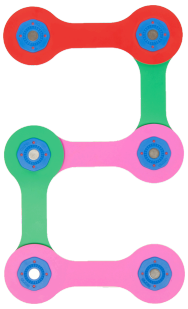
Global Collaborator
Students use digital tools to broaden their perspectives and enrich their learning experiences.

Clixo Numbers

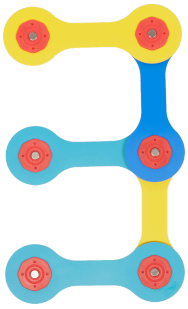
Print one set for each group. Students build each number with Clixo pieces on top of or next to its card.



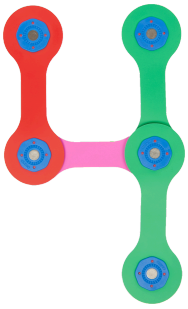
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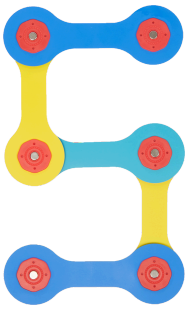
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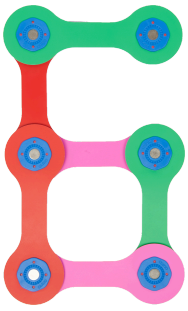
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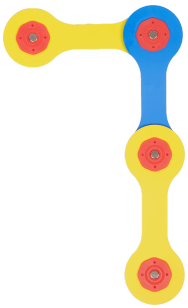
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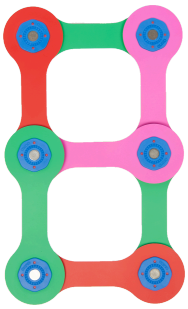
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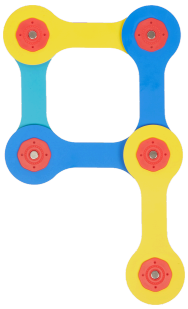
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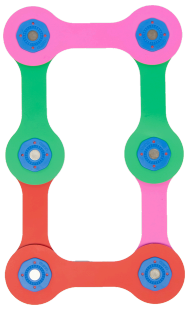
Seven



Eight



Nine



Zero