

Lesson Plan: Symmetrical Design Using MS Paint

Grade Level: Middle School

Subject: Technology/Art

Duration: 1 Class Period (45-60 minutes)

TEKS:

- §126.14 Technology Applications, Grade 7
 - (2) The student uses data input skills appropriate to the task.
 - (3) The student complies with the laws and examines the issues regarding the use of technology in society.
 - (5) The student uses the technology applications to create and communicate.

ELPS:

- 1C The student will use the English language learning environment to express ideas and content knowledge.
 - 3E The student will share information in cooperative learning interactions.
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Essential Question:

How can symmetry be used to create balanced and aesthetically pleasing designs using digital tools?

I CAN Statement:

I can use MS Paint tools to create a symmetrical design, demonstrating my understanding of symmetry and digital art techniques.

Materials:

- Computers with MS Paint installed
 - Internet access for Google Classroom
 - Example image of symmetrical design (if available)
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Warm-Up (5-10 minutes):

- Discuss the concept of symmetry with the class. Show examples of symmetrical designs in nature, art, and everyday objects.
 - Ask students to think about where they see symmetry in their daily lives.
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Activity Instructions:

1. Open a New MS Paint File (2 minutes):
 - Students open MS Paint on their computers.
2. Resize Canvas (3 minutes):
 - Resize the canvas to 900 x 600 pixels by going to Resize > Pixels and setting the width to 900 and the height to 600.
3. Draw Rectangle or Square (5 minutes):
 - Select the Rectangle Tool and draw a rectangle or square on one half of the canvas. Hold down the Shift key while drawing to create a perfect square if desired.
4. Design Inside the Shape (10 minutes):
 - Use the Pencil Tool or Brush Tool to draw a detailed design inside the rectangle or square.
5. Add Colors (5 minutes):
 - Use the Fill With Color (Bucket Tool) to add different colors to each part of the design.
6. Copy and Paste (5 minutes):
 - Use the Select Tool to draw a dotted line around the shape. Copy the selection and paste it.
7. Move and Flip (5 minutes):
 - Move the pasted shape next to the original. Use the Rotate Tool and select Flip Horizontal.
8. Align Shapes (5 minutes):
 - Carefully align the two shapes to create a symmetrical design. Zoom in to 600% if needed to trim or adjust the alignment.

9. Save and Name the File (3 minutes):

- Name the assignment "Symmetry" and save it as a PNG file by going to File > Save As > PNG.

10. Upload to Google Classroom (2 minutes):

- Upload the completed assignment to Google Classroom for grading.
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Wrap-Up/Exit Ticket (5 minutes):

- Students submit a brief reflection on what they learned about symmetry and digital design. They can share one challenge they faced and how they overcame it.
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Differentiation:

- For Special Education Students:
 - Provide step-by-step written and verbal instructions.
 - Allow extra time for completion.
 - Pair students with a peer buddy for assistance.
 - For Advanced Students:
 - Encourage adding more intricate designs and using additional colors.
 - Ask them to create a more complex symmetrical design with multiple elements.
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Assessment:

- Grading Rubric:
 - Canvas size 900 x 600: 10 points
 - Rectangle or square with colored design: 25 points
 - Duplicated design flipped horizontally: 25 points
 - Aligned appropriately: 10 points
 - Named "Symmetry" & saved as PNG: 10 points
 - Aesthetics: 20 points
 - Total: 100 Points

Example Image:

(Include an example image of a completed symmetrical design here if available)

Have Fun Creating Your Symmetrical Designs!