Lesso	n Plan	Templ	ate
Date:			

Grade: 4	Subject: Math-Geometry		
Materials:	Technology Needed:		
Magazines or printed pictures, glue, large white paper, sharpies or			
markers			
Instructional Strategies:	Guided Practices and Concrete Application:		
☐ Direct instruction ☐ Peer teaching/collaboration/	☐ Large group activity ☐ Hands-on		
☐ Guided practice cooperative learning			
☐ Socratic Seminar ☐ Visuals/Graphic organizers			
☐ Learning Centers ☐ PBL	☐ Pairing/collaboration ☐ Imitation/Repeat/Mimic		
☐ Lecture ☐ Discussion/Debate	Simulations/Scenarios		
☐ Technology integration ☐ Modeling	Other (list)		
Other (list)	Explain:		
Standard(s)	Differentiation		
• •	Below Proficiency: peer support and instructional aide as		
4.G.3 Recognize a line of symmetry for a two-dimensional	needed. May fold the cut out pictures to see line of symmetry.		
figure as a line across the figure such that the figure can	needed. May fold the cut out pictures to see line of symmetry.		
be folded along the line into matching parts. Identify line-	Above Proficiency: can find more than one line or may identify		
symmetric figures. Draw lines of symmetry	diagonal lines of symmetry.		
Objective(s).	diagonal lines of symmetry.		
By the end of the lesson, students will be able to identify lines of	Approaching/Emerging Proficiency: need to find at least one line		
symmetry in everyday objects by cutting out pictures and drawing at			
	of symmetry in each object.		
least one line of symmetry on each picture with a partner.	No. delikira/Leanning Desferance		
	Modalities/Learning Preferences:		
	• Visual:		
	Auditory:		
	Kinesthetic:		
	Tactile:		
Classroom Management- (grouping(s), movement/transitions, etc.)	Behavior Expectations- (systems, strategies, procedures specific to the		
Students will stay seated for direct instruction then will work with	lesson, rules and expectations, etc.)		
their desk partners to find lines of symmetry. Each student will use a	Students are expected to work with their desk partners and		
different colored marker to mark the line(s) of symmetry.	participate in finding pictures in the magazines. If finished early,		
	students will be asked to identify if the line of symmetry is vertical or		
	horizontal.		
Minutes Procedures			
1 Set-up/Prep:			
Paper, glue, magazines, and markers set out for students to	grab.		
1-2 Engage: (opening activity/ anticipatory Set – access prior le	earning / stimulate interest /generate questions, etc.)		
Show picture of the Taj Mahal.			
"Look at this picture. What do you notice?"			
"This is the Taj Mahal in India. It is a mausoleum, or tomb,	that was built to look exactly the same on both sides. They built the Taj		
Mahal symmetrical."			
5-10 Explain: (concepts, procedures, vocabulary, etc.)			
"A shape or object is symmetrical if it can be folded on a lin	ne so that it is the same on both sides."		
Show examples on poster board.			
"The line we use to fold the shape is called the line of symmetry	"The line we use to fold the shape is called the line of symmetry. It divides a shape into two parts that are the same size and		
shape."			
Show example.			
"Symmetry means having an exact match in size, shape, an	d arrangement of parts on opposite parts of a line. Some shapes have		
	only one line of symmetry, like this penguin, and some shapes have more than one like this rectangle. There are also two different		
	types of symmetry that we will focus on today- vertical and horizontal."		
Show examples.	··· · · · · · · · · · · · · · · · · ·		
•	"Look at this picture of Baby Yoda, he has no symmetry. His hands would have symmetry, and ears big ears are the same on each		
	side along with his eyes and wrinkles, but because of this part of his coat, if we drew a line of symmetry down the middle of his		
body, this part of his coat would not be the same on each side. So, he has no symmetry in this picture."			
"This butterfly has a vertical line of symmetry, because if we drew a line down the middle of the butterfly, it would be the exact			
same on both sides."			
	"This airplane has a horizontal line of symmetry, because if I folded it in half this way, it would be the same on the top and bottom.		
	Where else can we find lines of symmetry?"		
"Many capital letters in our alphabet have lines of symmetry. Be careful through, some figures may look like they are symmetrical			
when they aren't. When a figure is folded on a line of symmetry, the two parts must be an exact match."			
Show letter Z.			

Lessor	າ Plan	Temp	late
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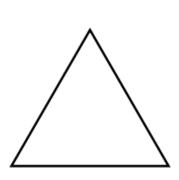
	"Now you are going to work with your desk partners on finding lines of symmetry in these magazines. When you find an object that is symmetrical, cut it out and glue it on to your poster. Then you will take a marker and draw the line of symmetry." "Each of you will need a different colored marker when you draw the line of symmetry, so I can see which objects you found in your group. I suggest using a ruler or any other straight edge to draw the line of symmetry." "Each person in your group needs to find at least one line of symmetry, but if you find an object with more than one line of symmetry, identify those lines too!"				
10-20	Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life				
	experiences, reflective questions- probing or clarifying questions)				
	Separate students into pairs or groups of three and give each group a magazine or two.				
	Monitor student progress and aid when needed.				
3-5	Review (wrap up and transition to next activity):				
	"What objects did you find? Can you think of any other objects with a line of symmetry?"				
	Lead brief discussion and collect posters.				
	Students have snack and story time.				
Formative Assessment: (linked to objectives, during learning)		Summative Assessment (linked back to objectives, END of learning)			
Progress monitoring throughout lesson (how can you document		Students will complete a brief quiz that covers symmetry material			
your student's learning?)		(attached below.)			
Students completed posters of objects with at least one line of					
symmetry.					
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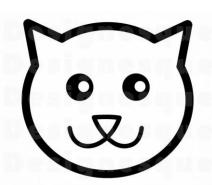
Reflection (What went well? What did the students learn? How do you know? What changes would you make?):

The assessment after the lesson later in the week showed that the students mostly understood lines of symmetry. Students that are above proficiency found more than one line of symmetry in some shapes, while other students found one (such as the triangle). Below proficiency students needed more support as expected and were encouraged to fold the objects they found to see how it matches on each side. I found that it was best to have students work in pairs rather than a small group to find the objects with symmetry, as they were less likely to participate with more than one partner.

Symmetry

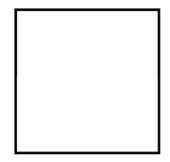
1. Draw the line(s) of symmetry in each object below.

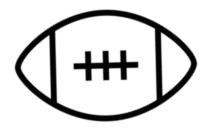


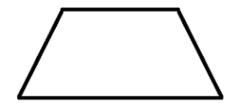




2. Circle how many lines of symmetry are in the shapes below.







- a. 2
- b. 6
- c. 3
- d. 4

- a. 0
- b. 2
- c. 1
- d. 4

- a. 4
- b. 2
- c. 0
- d. 1

3. Draw a shape with a <u>vertical</u> line of symmetry, **and** a shape with a <u>horizontal</u> line of symmetry.



symmetry rubric.pdf

Rubric: