Grade 1	Lesson. 15	-2	Reference to English
	Problem Solving: Make	an Organized	
	List		
Math Standard(s): 1.G.2 Domain: Geometry			
Content Objective(s):		Language Objective(s):	
Students will solve addition problems by recognizing and		Students will speak the words inside, outside and in all while	
recording its parts in small groups.		adding parts.	
I can solve addition problems by recognizing and recording its		I can speak the words inside, outside and in all while adding parts.	
parts with a small group.			
Essential Understanding:		Academic Vocabulary:	
Some problems can be solved by generating a list of outcomes		Listen:	
and organizing that list in a systematic way so all outcomes are		Read:	
accounted for.		Write:	
		Speak:	
		Sentence Frame:	
Materials:		Language and Word Wall:	
Pattern blocks (teaching tool 16)			
Lesson:		Instructio	nal Time: 25 minutes

Opening: (3 minutes)

T: "You have learned how to name and describe plane shapes."

- Go through the shapes with the class.
- T: "Today you will learn how to make an organized list to show all of the different ways to make larger shapes by combining pattern blocks."
- T: "There are many shapes around us. Some objects are made up of 1 shape, some are made up of 2 or 3 shapes. Let's look around the room and find an object that is made up of 2 or more shapes."
- S: will look around the room and try to find an object that is made up of 2 or more shapes.
- T: "Tell your neighbor the object you found that is made up of 2 or more shapes."
- S: will turn to their neighbor and tell them the objects.
- T: "Let's make a list on the board of the objects we have found that have 2 or more shapes. I will start. Look at this chair. There are rectangles, squares, circles for the legs. I draw a chair on the board. Raise you hand and tell me more objects."

Introduction to New Material (Direct Instruction): (3 minutes)

- Use a document cam to show the pattern blocks.
- T: "Let's look at pattern blocks. We have a hexagon, a rhombus and a triangle. What are different ways we can make a hexagon."
- S: will respond with different ways to make a hexagon.
- T: "One way we can make a hexagon is by taking 6 triangles and putting them together. I will organize them right on top of the hexagon to make sure the shape stays the same."
- Teacher will go through other pattern blocks to make a hexagon.
- T: "How many ways are there to make a hexagon?"
- S: will respond with the number of ways to make a hexagon with the other pattern blocks.

Guided Practice: (7 minutes)

Use the modeling cycle:

Teacher Does:

T: "I am not going to separate you into groups of 2. You need to find all the ways to make this shape using the yellow hexagon, blue rhombus and green triangle blocks."

1 Students Does with Teacher:

- T: "I need one helper."
- Teacher will choose a helper.
- Draw a shape on the board.
- T: "Will you please find all the ways to make this shape with the yellow hexagon?"
- S: will find all the ways to make the shape with the yellow hexagon.
- T: "What shape is it?"
- S: will respond "it is a hexagon."
- T: "Good job, you found a way to make this shape using a hexagon."

All Students Do:

- T: "Now I want all students to do it. Here are the groups of 2. You will need 1 paper for the whole group."
- S: will collect their paper and as a group will find all the ways to make the shape on the paper.

Independent Practice: (5 minutes)

- T: "Now it is your turn to do a problems on your own. Each of you will be given this paper and I expect you to answer all the questions. We will do the first one together."
- Use the document cam to show the question.
- T: "Look at the large yellow triangle. Can you make that triangle using only trapezoids?"
- S: will respond with "no"
- T: "Can you make that triangle using only rhombus'?"
- S: will respond with "no"
- T: "Can you make that triangle using only rhombus'?"
- S: will respond with "yes"
- T: "Watch and count the number of small green triangles I use to make the big yellow one."
- S: will count, 1,2,3,4.
- T: "We used 4 triangles. Let's write this information down."
- Teacher will write the information on the paper.
- T: "If we use 2 shapes to make the triangle, can one of them be a trapezoid and the other be a triangle?"
- S: will respond, "yes"
- T: "Let me show you."
- T: "Can I make the triangle using a rhombus and 2 triangles?"
- S: will respond, "yes" or "no"
- T: "You can! Let me show you. We found 3 different ways to make the triangle."
- T: "Now it is your turn. You will do questions number 2 on your own. Papers are on your table. When I call your row you may stand up, walk to your table and get started."
- S: will begin working
- Make sure there are pattern blocks on every table.
- Teacher will walk around the room as students work.

Closing: (1 minutes)

T: "Good job today. You were able to make shapes using other shapes!

Assessment:

Guided Practice