## Lesson Plan

Teacher: Mrs. Gerhart/Mrs. Creamer	Class/Subject: Secor	id Grade	Date: March 14, 2012	
	/Mathematics			
Domain: Operations and Algebraic Thinking				
Cluster: Represent and solve problems involving addition and subtraction.				
Standards: 2.OA.1 Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of				
adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings				
and equations with a symbol for the unknown number to represent the problem.				
Embedded Mathematical Practices: 1. Make sense of problems and persevere in solving them, 3. Construct viable arguments				
and critique the reasoning of others, 4. Model with mathematics, 8. Look for and express regularity in repeated reasoning				
earning Targets: Kid-Friendly Language		Materials/Resources:		
students will:		Large supply of connecting (unifix) cubes for testing		
• identify the unknown in an addition or subtraction		<ul> <li>various solutions or Manipulatives such as pompoms, yarn, tooth picks, or other materials that students could use to represent head, tails, and legs, pictures or books about farm animals</li> <li>Paper &amp; Pencils to record solution/ answers, results</li> <li>Evidence Trackers to record mathematical conversations/dialogue and track learning</li> </ul>		
word problem (Knowledge)				
<ul> <li>write an addition and subtraction equation with a</li> </ul>				
symbol for the unknown (Knowledge)				
<ul> <li>Use drawings or equations to represent one- and</li> </ul>				
two-step word problems (Reasoning)				
<ul> <li>Add and subtract within 100 to solve one-step word</li> </ul>				
problems with unknowns in all positions (Reasoning)		<ul> <li>Poster of Ru</li> </ul>	lies for problem	
<ul> <li>Add and subtract within 100 to solve two-step word</li> </ul>		What I saw a	at the farm listed on chart paper	
problems with unknowns in all positions (Reasoning)		Chart paper	to brainstorm group work- Looks	
Determine operation needed to solve addition and		Like/Sounds	; Like?	
subtraction problems in situations	s including add to,			
take from, put together, take apar	rt, and compare			
(Reasoning)				
(10 minutes) Introduction/ Critical Input Experience: Talk about visiting my friends' farm. Discuss what group work looks and				
sounds likeso that we all can do our best problem solving and thinking.				
(25 minutes) <u>Procedures:</u>				
1. Present problem:				
The other day, I was visiting my friend and she lives on a farm. We went out to see the animals that she has and this is				
what I saw				
4 neads				
3 talls What animals did Lsaa?				
What animals did I see?				
2. You will be working with a small group to problem solve a solution for the situation. You may use cubes, or other manipulatives that you think will belo you reach a solution. You will peed to draw a picture of your solution and write				
about it				
about it. 3 Send children out w/ materials: nencil naner				
4 Set up other adults w/ evidence trackers- Explain importance of not giving students help- let them struggle/ do not				
guide. May ask question- Please tell me what you are thinking? RECORD response please				
guide. May ask question- riease ten me what you are thinking! NECOND response please.				

5. Allow students to work (15 minutes) The children will use diagrams and/or manipulatives to guess and check for

correct

- 6. solutions. (Some students will be able to label their work with numerical phrases.)
- 7. Bring students back together and take time for partners to share-out results and thinking. Did we all have the same thinking/answers? (20 minutes)

(Extensions) Have students write about how they helped to solve the problem and what they discovered by listening to their classmates sharing.

Wrap Up/Reflection (Student (s): Use questioning: How would	Evidence of Learning/Assessment:		
you explain your choices? How do you know that your	Reflect on notes recorded on evidence trackers		
reasoning is on track?	Refer to rubric		
Reflection/Comments (Teacher (s):			
Does student show understanding parameters of problem?			
Did students realize that there were multiple solutions to the problem? (Two or more solutions are given to the problem)			
Evidence of how did students apply mathematical practices-			

Communication & use of mathematical language