

<b>Course: 1<sup>st</sup> Math Problem Solving</b>			<b>Designated Six Weeks: Ongoing</b>		
<b>Unit: Problem Solving</b>			<b>Days to teach: Ongoing</b>		
<b>TEKS</b>	<b>Guiding Questions/ Specificity</b>	<b>Assessment</b>	<b>Vocabulary</b>	<b>Instructional Strategies</b>	<b>Resources/ Weblinks</b>
<b>PROBLEM SOLVING TEKS PRACTICED EACH SIX WEEKS</b>					

1.11 The student applies Grade 1 mathematics to solve problems connected to everyday experiences and activities in and outside of school.					
1.11A Identify mathematics in everyday situations.	Use real items (such as pencils) to model a problem situation.	Delia makes 8 sandwiches. Each sandwich has 2 slices of bread. How many slices of bread in all?	<b>ELPS Strategies</b>  1C, 1E, 2E, 3E, 3H, 4D, 4F	Students will use every day objects (such as pencils and coins) to solve real-life math situations.  Guide students in role playing to use math in everyday situations. Such as how many boys and girls are in are class all together?	Envisions Problem of Day  Early Math Skills with favorite picture books.
1.11B Solve problems with guidance that incorporates the processes of understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness.	Use problem solving mat to guide plan.	Each shirt has 5 buttons. How many buttons in all? (Pictures of shirts)		Demonstrate the use of MISD problem solving board (PSB) to guide students with solving problems.  Cut PSB into pieces and do one piece at a time.	Problem Solving mat  Promethean Planet #26417

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1.11C Select or develop an appropriate problem-solving plan or strategy including drawing a picture, looking for a pattern, systematic guessing and checking, or acting it out in order to solve a problem.	Use manipulatives (such as counters, part/part whole mat, graphic organizers) to demonstrate various problem solving strategies.	Draw a picture. Complete the number sentence. The farm has 4 horses. It also has 3 pigs. How many animals does the farm have in all? ___ + ___ = ____		Model solving problems by using graphic organizers to help look for a pattern. Students will use counters to guess and check and model their plan for solving the problem. Students will then draw a picture to represent their model.	Envisions- Problem of Day
1.11D Use tools such as real objects, manipulatives, and technology to solve problems.	Use tools (such as calculators, promethean boards, computers, Envisions online learning and manipulatives) to help solve problems.	Use tools/manipulatives		Assist students with website & explain how to use to solve problems. Use computer software resources in a math center.	
1.12 The student communicates about Grade 1 mathematics using informal language.					
1.12A Explain and record observations using objects, words, pictures, numbers, and technology.	Read the problem and show the data with words, pictures, and numbers.	Marie has 8 flowers. She gives Bill 3 flowers. Which shows how many flowers Marie has left?		Think aloud to guide the students to write a sentence, draw a picture and use numbers to solve a problem on the problem solving board.  Guide students to then transfer information into KidPix.	

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1.12B Relate everyday language to mathematical language and symbols.	Write a number sentence for objects in the problem.	11 ladybugs are on a flower. 4 fly away. How many ladybugs are left? Which addition fact can help you solve the problem?		Model using manipulatives and work mats to write number sentences.  Monitor students as they match a number sentence to a picture.	
1.13 The student uses logical reasoning. The student is expected to justify his or her thinking using objects, words, pictures, numbers, and technology.					
1.13A Justify his or her thinking using objects, words, pictures, numbers, and technology.	Explain in words why they think the answer is correct.	Eric has 11 marbles. He has 8 more marbles than Ken. Explain how you know how many marbles Ken has.		Students will collaborate, discuss, and brainstorm with teacher and peers to use logical reasoning and justify their thinking in problem solving.	Roads to Reasoning