Student Name:	Unit: <u>Flat Stanley</u>	Date:	
	Problem Solving Anecdotal Notes and Checkli	st	

## Survey (Data Management) Mail Geometry **Symmetry Dominoes** Measurement (Patterning, Number Sense) (Number Sense) Works at understanding a problem before beginning work Uses drawings, graphs, manipulatives to help solve problem Uses appropriate strategies to solve problem Assesses validity of answers (Looking back) Justifies solution methods & results Observes and uses patterns in mathematics **Explains ideas in writing Communicates ideas orally**

Source: Adapted from Van de Walle, John A. and Sandra Folk. Elementary and Middle School Mathematics. Toronto, ON: p. 69.

Student Name:		Unit:	Flat S	<u>Stanle</u>	<u>y</u> [	Date:	
	·				-		<del>-</del>

## **Problem Solving Rubric**

	4	3	2	1
Understanding the Problem	Shows complete understanding of the problem. Has insights beyond the problem.	Shows complete understanding of the problem.	Shows partial understanding of the problem. Needs assistance to clarify.	Requires assistance to understand the problem.
Formulating a Plan	Develops sophisticated strategies. Applies strategies within an effective plan.	Independently chooses and applies appropriate strategies. Applies strategy effectively.	Shows evidence of plans and use of a strategy. Strategy may or may not be applied effectively.	Needs assistance to choose appropriate strategy. Applies strategy in a random fashion.
Solving the Problem	Provides a correct and complete solution.  May show more than one way to solve the problem.	Independently provides a correct and complete solution.	Makes minor mathematical error leading to a wrong answer or incomplete solution.	Give incorrect solution even with direction.  Makes major mathematical errors.
Looking Back	Continually monitors the reasonableness of the selected strategies and the progress towards a solution.  Considers variations and extensions of the problem.	Independently judges the reasonableness of a solution and verifies the answer.	Judges the reasonableness of a solution when directed or encouraged to do so.	Requires prompting and assistance to determine the reasonableness of a solution.
Communicating the Solution	Explains reasoning with clarity, coherence, insight.	Independently explains reasoning in a well-organised fashion with justifications.	Gives an answer and begins to elaborate upon explanations with assistance.	Explains reasoning in a disorganised fashion, difficult to follow.

Source: Ontario Association for Mathematics Education (1998). Linking Assessment and Instruction in Mathematics: Junior Jears (Revided Edition). London, ON: Author, p. 34. Cited in Van de Walle, John A. and Sandra Folk. Elementary and Middle School Mathematics. Toronto, ON: p. 74.

Student Name:	Date:

## **Math Journal Rubric**

4	3	2	1	
Responses are complete.	Responses are complete.	Responses are incomplete.	No response.	
Questions or directions were understood and followed.	Directions were understood and followed.	Directions were partially understood.	Directions were not understood or followed.	
Ideas are communicated clearly.	Ideas are communicated fairly well.	Ideas are somehow incoherent and ambiguous.	Ideas are irrelevant and/or inadequate.	

Source: www.geocities.com/kaferico/writemat.htm?200523