Name: _____ Date: _____

A–1

Mathematical Processes
PROBLEM SOLVING - *LOOK FORS*

PROBLEM SOLVING: ***Students will develop, select, apply, and compare a variety of problem-solving strategies as they pose and solve problems and conduct investigations, to help deepen their mathematical understanding.***	
Planning	Understand the problem
	Try different techniques and strategies
	Generate some examples
	Ask thoughtful questions
Collecting data related to the problem	Take and record measurements
	Search the Internet for secondary data
	Check that data being gathered are appropriate to the inquiry at hand
Selecting and applying a problem-solving strategy	*Include some of the following strategies:* Draw a diagram or picture
	Make a simpler but similar problem
	Create a mathematical model
	Work backward
	Use a formula
	Look for a pattern
	Guess and check
	Make and state assumptions
	Make a scale drawing or use technology
	Make an organized list
	Use logical reasoning
	Consider alternative strategies or blend strategies
	Monitor progress and revise, as necessary
	Ask if the answer is reasonable
	Consider extensions/variations to the problem

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