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 is appropriate to the inquiry at hand			
Selecting and applying a problem-solving	Include some of the following strategies:			
strategy	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			
	Check if the answer is reasonable			
	Consider extensions/variations to the problem			