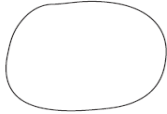


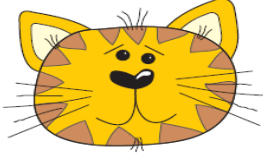



Numeracy Rubric	 <i>... a start</i>	 <i>... getting there</i>	 <i>... that's it</i>	 <i>... Wow!</i>
				
Concepts and Connections	<ul style="list-style-type: none"> • I am building my prior knowledge and I'm starting to understand some of the concepts . • I need a little help to apply the concepts. 	<ul style="list-style-type: none"> • Using my prior knowledge, I recognize some of the concepts to use. • I apply some of the concepts needed. 	<ul style="list-style-type: none"> • Using my prior knowledge, I recognize what concepts to use. • I apply the concepts needed. 	<ul style="list-style-type: none"> • Using my prior knowledge, I recognize many concepts to use. • I apply a variety of concepts.
Problem-Solving Strategies and Thinking	<ul style="list-style-type: none"> • I try to use before and after estimation strategies and can't always predict and verify. • With a little help I know what strategy to use and can persevere. 	<ul style="list-style-type: none"> • I am beginning to use before and after estimation strategies to predict and verify. • With familiar tasks, I know which strategies to use and can persevere. • I'm beginning to show some flexibility in thinking in order to find strategies. 	<ul style="list-style-type: none"> • I use before and after estimation strategies to predict and verify. • I know which strategies to use. • I persevere and show some flexibility in thinking until I find a strategy that works. 	<ul style="list-style-type: none"> • I use before and after estimation strategies effectively to predict and verify. • I know which strategies to use and can also invent new strategies. • I persevere and think flexibly until I find a strategy that works.
Procedures	<ul style="list-style-type: none"> • I am just starting to understand some of the math procedures. • I'm not sure if my answers make sense. • I get a few answers correct. • I takes a long time and sometimes I finish. 	<ul style="list-style-type: none"> • I understand some of the math procedures. • I'm not sure if my answers make sense. • Some of my answers are accurate. • I start over and it takes a little longer. 	<ul style="list-style-type: none"> • I understand the math procedures. • My answers make sense. • My answers are mostly accurate. • I work fairly quickly and efficiently. 	<ul style="list-style-type: none"> • I am confident using math procedures. • My answers make sense. • My answers are consistently accurate. • I work quickly and efficiently.
Representation and Communication	<ul style="list-style-type: none"> • I can explain parts of my thinking using manipulatives or pictures. • I am beginning to use math language. 	<ul style="list-style-type: none"> • I can explain parts of my thinking in words, numbers or pictures. • I can explain parts of my answers and procedures using math language. 	<ul style="list-style-type: none"> • I can clearly explain my thinking in words, numbers and pictures. • I can explain my answers and procedures using math language. 	<ul style="list-style-type: none"> • I can precisely explain my thinking in words, numbers and pictures. • I can explain my answers and procedures precisely using math language.
Snapshot	<ul style="list-style-type: none"> • With a little help, I can apply some of the concepts. • With a little help, I use a few strategies and start to use estimation to solve problems. • I get a few answers correct. • I can explain parts of my thinking using manipulatives or pictures. 	<ul style="list-style-type: none"> • I apply some of the appropriate concepts. • I use a few strategies and am beginning to use estimation to solve problems. • Some of my answers are accurate. • I can explain parts of my thinking in words, numbers and pictures. 	<ul style="list-style-type: none"> • I apply the appropriate concepts. • I use strategies and estimation to solve problems. • My answers are mostly accurate. • I can explain my thinking in words, numbers and pictures. 	<ul style="list-style-type: none"> • I apply a variety of appropriate concepts. • I use strategies and estimation to solve problems creatively. • My answers are consistently accurate. • I can precisely explain my thinking in words, numbers and pictures.