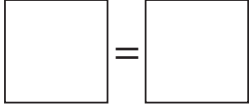
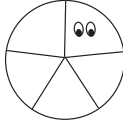
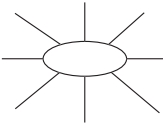


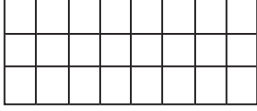
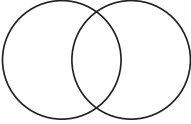
Process Skills Across Content Areas

Skill	<p style="text-align: center;">Symbolization (Use symbols to represent an idea)</p> 	<p style="text-align: center;">Observation (Use senses to learn about something in detail)</p> 	<p style="text-align: center;">Description (Verbally portray attributes of an object, person, scene, or event)</p> 
Language Arts	<p><i>Identify own name, classmates' names, labels, words, sentences as symbols for thoughts and ideas</i></p> <p><i>Use symbols to share thoughts and ideas with others</i></p>	<p><i>Create simple pictures depicting what is observed and give an oral summary</i></p> <p><i>Write sentences and labels or draw illustrations to help remember what is observed or read about</i></p> <p><i>Discriminate shapes, sounds, syllables, and word accents</i></p>	<p><i>Give oral summary of observations, describe drawings, field notes, etc.</i></p> <p><i>Develop a descriptive vocabulary</i></p> <p><i>Identify opposites, synonyms</i></p>
Math	<p><i>Identify symbols for age, quantity, etc.</i></p> <p><i>Write equations as symbols for real life problem solving</i></p> <p><i>Identify real graphs as symbols for graphs</i></p>	<p><i>Describe attributes of an object (size, weight, color, length)</i></p> <p><i>Identify and describe sequences and patterns</i></p> <p><i>Count and use numbers to describe observations</i></p> <p><i>Use measuring tools</i></p>	<p><i>Develop descriptive vocabulary to describe an object accurately (i.e., heavy, light, more than, less than, shape, color)</i></p> <p><i>Show a grasp of math vocabulary</i></p>
Science	<p><i>Identify models, sequences, cycles, and drawings, as symbols for actual items and events</i></p> <p><i>Create clay models</i></p> <p><i>Sequence left to right</i></p>	<p><i>Use one or more of the five senses to gather information</i></p> <p><i>Use sense-enhancing tools</i></p> <p><i>Record observations using pictures and text</i></p>	<p><i>Develop descriptive vocabulary for each of the five senses (bumpy, smooth, loud, soft, light, dark, bitter, sweet, etc.)</i></p> <p><i>Show a grasp of science vocabulary</i></p>
Social Studies	<p><i>Identify symbols in the world around them (school bell, siren, stoplight, logos, etc.)</i></p> <p><i>Identify map as a symbol for places</i></p>	<p><i>Describe similarities, differences, and changes over time</i></p> <p><i>Identify and describe patterns and cycles</i></p> <p><i>Record observations using pictures and text (journals, interviews, graphs, etc.)</i></p>	<p><i>Develop descriptive vocabulary (same, different, young, old, things I like, do not like, etc.)</i></p> <p><i>Utilize effective communication</i></p> <p><i>Participate in collaboration</i></p>
Healthy Lifestyles	<p><i>Recognize safety symbols</i></p> <p><i>Know Food Guide Pyramid</i></p> <p><i>Know name, address, phone number</i></p> <p><i>Know last name, parents names</i></p>	<p><i>Identify emotions</i></p> <p><i>Recognize friendship qualities</i></p> <p><i>Learn care of body</i></p> <p><i>Identify safety principles</i></p> <p><i>Identify appropriate dress for season</i></p>	<p><i>Describe positive personal qualities and talents</i></p> <p><i>Understand personal space, boundaries</i></p> <p><i>Identify school rules</i></p> <p><i>Describe personal nutrition, fitness</i></p>
Fine Arts	<p><i>Pantomime an event</i></p> <p><i>Choose symbols, ideas, and subject matter for art</i></p> <p><i>Identify multicultural artworks and crafts</i></p>	<p><i>Describe how five senses help a person create art</i></p> <p><i>Identify colors and create new colors using color mixing</i></p> <p><i>Work with a variety of media</i></p> <p><i>Play a variety of rhythm instruments</i></p>	<p><i>Develop descriptive vocabulary for music (beat, pitch, volume, etc.)</i></p> <p><i>Use words to describe texture, color family, shape, and subject matter of artwork</i></p> <p><i>Show a grasp of movement vocabulary (walk, run, hop, forward, backward, etc.)</i></p>


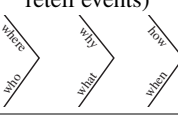
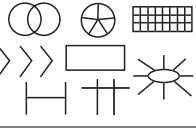
Process Skills Across Content Areas, cont.

Skill	<p style="text-align: center;">Prediction (Describe expected event or outcome based on evidence)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">What has happened</td> </tr> <tr> <td style="text-align: center;">What I think will happen next</td> </tr> </table>	What has happened	What I think will happen next	<p style="text-align: center;">Collecting Data (Gather and organize factual information)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																									<p style="text-align: center;">Investigation (Seek information about)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">K</td> <td style="text-align: center;">W</td> <td style="text-align: center;">L</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	K	W	L			
What has happened																																			
What I think will happen next																																			
K	W	L																																	
Language Arts	<p><i>Form an idea of an expected event or outcome based on evidence from text or illustrations</i></p> <p><i>Validate idea based on current observations or evidence from text</i></p> <p><i>Identify and extend patterns</i></p>	<p><i>Take notes</i></p> <p><i>Use reference materials</i></p> <p><i>Mark evidence in text with sticky notes</i></p> <p><i>Record information in an organized way (graphic organizer, story maps, webs)</i></p> <p><i>Be precise and accurate</i></p>	<p><i>Ask questions</i></p> <p><i>Investigate possible relationships</i></p> <p><i>Follow organized procedures</i></p> <p><i>Understand the difference between a question and a story</i></p> <p><i>Read nonfiction and expository books</i></p>																																
Math	<p><i>Use mental math, estimation, or number sense to predict reasonable answer</i></p> <p><i>Show reasoning in creating and defending predictions</i></p> <p><i>Extend patterns</i></p> <p><i>Identify sequences, predict next in sequence</i></p>	<p><i>Count objects, frequency of events</i></p> <p><i>Create real/symbolic graphs</i></p> <p><i>Use standard and nonstandard measure</i></p>	<p><i>Create real and symbolic graphs</i></p> <p><i>Use standard and nonstandard measure</i></p> <p><i>Ask questions and explore answers (e.g., Which of these? How much? How many? etc.)</i></p>																																
Science	<p><i>Form idea of an expected result</i></p> <p><i>Draw on observation and judgment that is based on past experience</i></p> <p><i>Validate based on current observation</i></p> <p><i>Identify and extend patterns, cycles, sequences</i></p>	<p><i>Measure and record information in an organized way</i></p> <p><i>Be precise and accurate</i></p>	<p><i>Develop a sense of curiosity</i></p> <p><i>Use observation and sense-enhancing tools</i></p> <p><i>Suggest ideas for experimentation to learn information</i></p> <p><i>Use field guides and resource books to gather additional information</i></p>																																
Social Studies	<p><i>Use judgmental skills to predict an event</i></p> <p><i>Use judgmental skills to describe effects of a behavior, or decision</i></p> <p><i>Examine cause and effect</i></p>	<p><i>Create real/symbolic graphs</i></p> <p><i>Record journal entries</i></p> <p><i>Conduct interviews, surveys</i></p> <p><i>Use graphic organizers, mapping</i></p>	<p><i>Use interviews to collect information, to draw a conclusion, or to solve a problem</i></p> <p><i>Suggest questions for interviews/surveys to learn information</i></p>																																
Healthy Lifestyles	<p><i>Practice conflict resolution</i></p> <p><i>Describe friendship qualities, how to make and keep friends</i></p> <p><i>Describe taking care of body</i></p> <p><i>Describe disease, substance abuse, and their effect on health</i></p>	<p><i>Keep a personal fitness record</i></p> <p><i>Describe favorite sport, form of exercise, nutritious food, etc.</i></p> <p><i>Graph what students ate for breakfast</i></p>	<p><i>Investigate nutrition</i></p> <p><i>Investigate sports</i></p> <p><i>Investigate exercise</i></p> <p><i>Research substance abuse/disease</i></p> <p><i>Collect information on friendship</i></p> <p><i>Study stress and identify stress-reducing activities</i></p>																																
Fine Arts	<p><i>Predict emotion that a pantomime portrays (cite evidence)</i></p> <p><i>Predict color created by mixing two primary colors or mixing colors to make a lighter or darker shade</i></p>	<p><i>Count number of hops, jumps to move from one place to another</i></p> <p><i>Describe historical and cultural origin of folk dances and singing games</i></p> <p><i>Collect things that are red, blue, etc.</i></p> <p><i>Count number of beats per measure</i></p>	<p><i>Experiment with color mixing, colors found in landscapes, clouds, etc.</i></p> <p><i>Recognize real world horizon lines</i></p> <p><i>Explore basic shapes that make an object</i></p> <p><i>Examine blending attributes of varied media (watercolor, crayons, chalk, etc.)</i></p>																																

Process Skills Across Content Areas, cont.

Skill	<p style="text-align: center;">Interpretation of Data (Explain the meaning or conclusion drawn from facts)</p> 	<p style="text-align: center;">Classification (Arrange into groups with attributes in common and label)</p> 	<p style="text-align: center;">Segmentation and Blending (Separate or join parts of a whole)</p> <table border="1" style="margin: auto;"> <tr> <td style="text-align: center;">1st Beginning</td> <td style="text-align: center;">2nd Middle</td> <td style="text-align: center;">3rd End</td> </tr> </table>	1st Beginning	2nd Middle	3rd End
1st Beginning	2nd Middle	3rd End				
Language Arts	<p><i>Recognize cause and effect relationships</i></p> <p><i>Organize facts</i></p> <p><i>Summarize new information</i></p> <p><i>Think inductively and deductively</i></p> <p><i>Use a rubric to analyze</i></p>	<p><i>Compare and contrast attributes of characters</i></p> <p><i>Arrange ideas and sentences</i></p> <p><i>Order and sequence information</i></p> <p><i>Consider multiple attributes</i></p> <p><i>Differentiate fiction from nonfiction</i></p>	<p><i>Segment sentence into words</i></p> <p><i>Segment words into syllables and sounds</i></p> <p><i>Blend sounds to form words</i></p> <p><i>Blend words into meaningful sentences</i></p>			
Math	<p><i>Identify own data in class graph</i></p> <p><i>Identify groups with more or less</i></p> <p><i>Solve problems using data from graphs</i></p> <p><i>Identify trends on a graph</i></p> <p><i>Make judgments or decisions using graphs</i></p>	<p><i>Identify attributes of an object</i></p> <p><i>Sort objects according to attributes</i></p> <p><i>Compare objects by length, weight, volume</i></p> <p><i>Generate categories</i></p>	<p><i>Arrange numbers in various ways</i></p> <p><i>Identify elements of patterns</i></p> <p><i>Combine and separate sets</i></p> <p><i>Add and subtract</i></p> <p><i>Identify fractions as part of a whole</i></p>			
Science	<p><i>Explain the information presented and use it to answer a question</i></p> <p><i>Interpret data from prior knowledge, books, graphs, tables, diagrams, or technology</i></p>	<p><i>Identify attributes of an object</i></p> <p><i>Sort objects by their attributes in multiple ways</i></p> <p><i>Analyze, give examples and non-examples</i></p> <p><i>Contrast and compare objects to classify</i></p> <p><i>Generate names for categories</i></p>	<p><i>Segment objects into parts (parts of an object)</i></p> <p><i>Sequence phases, cycles, events</i></p> <p><i>Organize steps to an experiment</i></p>			
Social Studies	<p><i>Record observations and describe changes over time and point of view</i></p> <p><i>Interpret data from graphs, surveys, interviews, charts, maps</i></p> <p><i>Describe cause and effect</i></p>	<p><i>Identify attributes of individuals, families, communities, and cultures</i></p> <p><i>Compare and contrast unique talents and attributes</i></p>	<p><i>Identify unique talents</i></p> <p><i>Work cooperatively utilizing talents</i></p> <p><i>Combine ideas</i></p> <p><i>Collaborate</i></p>			
Healthy Lifestyles	<p><i>Recognize cause and effect relationships of health and wellness</i></p> <p><i>Recognize cause and effect relationships in conflicts and conflict resolution</i></p> <p><i>Summarize fitness information</i></p>	<p><i>Sort locomotor/non-locomotor</i></p> <p><i>Sort communicable/non-communicable diseases</i></p> <p><i>Sort nutritious/nutrient empty</i></p> <p><i>Sort safe behaviors/dangerous behaviors</i></p> <p><i>Sort school rules, problem behaviors</i></p>	<p><i>Identify sequence of game or sport</i></p> <p><i>Stop, drop, and roll</i></p> <p><i>Identify components of daily health care</i></p>			
Fine Arts	<p><i>Feel beats per minute, create a dance to the flow of the music</i></p> <p><i>Recognize main idea or story a picture tells</i></p> <p><i>Define basic feeling or plot in creative drama or song, cite evidence that led to conclusion</i></p>	<p><i>Identify properties of an object</i></p> <p><i>Sort artwork and music</i></p> <p><i>Compare portrayed objects (shape, color, size, length, quantity)</i></p> <p><i>Order objects from lightest to darkest</i></p> <p><i>Generate categories for art, music, movement</i></p>	<p><i>Arrange shapes in various ways</i></p> <p><i>Combine and separate shapes, colors</i></p> <p><i>Blend together a set of steps to create a dance</i></p> <p><i>Create scenes for creative drama production</i></p>			

Process Skills Across Content Areas, cont.

Skill	<p style="text-align: center;">Problem Solving (Generate a strategy to work out a solution)</p> 	<p style="text-align: center;">Form Conclusions (Comprehension) (Identify main idea, generalize, retell events)</p> 	<p style="text-align: center;">Communicating Results (Create multiple representations for thinking about a concept)</p> 
Language Arts	<p><i>Identify conflict and resolution in text</i></p> <p><i>Clarify</i></p> <p><i>Question</i></p> <p><i>Solve problems found in content area reading</i></p> <p><i>Edit a draft</i></p>	<p><i>Generalize, retell</i></p> <p><i>Identify main idea</i></p> <p><i>Establish relationships between characters, text to self, text to text</i></p> <p><i>Use information in other situations (KWL charts, etc.)</i></p> <p><i>Respond to group discussion</i></p>	<p><i>Share ideas orally with the class</i></p> <p><i>Create simple pictures depicting what they observed</i></p> <p><i>Give an oral summary</i></p> <p><i>Work cooperatively in groups</i></p>
Math	<p><i>Select problem solving strategy</i></p> <p><i>act it out, draw a picture, find a pattern, guess and check, make a real graph, make a picture graph, make a table, use logical reasoning</i></p> <p><i>Create explanation</i></p> <p><i>Evaluate outcome</i></p>	<p><i>Use multiple sources of evidence</i></p> <p><i>Use + and - with real life story problems</i></p> <p><i>Distinguish essential from nonessential information in problem solving</i></p>	<p><i>Illustrate equations with pictures, stories from real life</i></p> <p><i>Use charts, graphs, pictures, equations, manipulatives to communicate solutions to problems</i></p>
Science	<p><i>Generate a question</i></p> <p><i>Determine where you could find out more about question</i></p> <p><i>Observe, explore, study resource books</i></p> <p><i>Organize and document information</i></p> <p><i>Create a tentative explanation</i></p>	<p><i>Generalize</i></p> <p><i>Use critical analysis</i></p> <p><i>Establish relationships</i></p> <p><i>Use information in other situations</i></p>	<p><i>Illustrate and write about observations and research</i></p> <p><i>Share projects with class (may include using charts, models, resource information, learning logs, etc.)</i></p> <p><i>Write and discuss showing a grasp of science vocabulary</i></p>
Social Studies	<p><i>Identify actions leading to conflicts</i></p> <p><i>Generate strategies to solve conflicts</i></p> <p><i>Evaluate effectiveness of strategies</i></p> <p><i>Problem solve through service learning</i></p>	<p><i>Give explanations (why they think something happened, why they agree/disagree)</i></p> <p><i>Establish point of view</i></p> <p><i>Determine cause and effect</i></p> <p><i>Describe an idea</i></p> <p><i>Collaborate</i></p>	<p><i>Illustrate report with pictures, interviews, stories from real life</i></p> <p><i>Use charts, graphs, pictures, dramatization, songs, poems to communicate understanding</i></p> <p><i>Work cooperatively in groups</i></p>
Healthy Lifestyles	<p><i>Identify conflict and resolution in classroom or playground</i></p> <p><i>Clarify problems created by substance abuse, communicable diseases, improper nutrition</i></p> <p><i>Identify health problems related to poor choices and potential solutions</i></p>	<p><i>Generalize, retell, identify main ideas</i></p> <p><i>Establish relationships between what we choose to do and the resulting experience</i></p> <p><i>Discuss potential positive experience and predict choices which would facilitate the desired outcome</i></p>	<p><i>Share ideas orally with the class</i></p> <p><i>Create simple pictures depicting what was observed or researched</i></p> <p><i>Give an oral summary</i></p> <p><i>Work cooperatively in groups</i></p>
Fine Arts	<p><i>Select problem (e.g., deciding on subject matter, personal inhibitions) to communicate</i></p> <p><i>break task into steps, identify basic colors and shapes, act it out, write a script, use logical reasoning</i></p> <p><i>Create explanation</i></p> <p><i>Evaluate outcome</i></p>	<p><i>Use multiple sources of evidence</i></p> <p><i>Identify colors typical of a season</i></p> <p><i>Make up a story or dramatization for the main idea of a work of art</i></p> <p><i>Distinguish essential/ nonessential information for problem solving</i></p>	<p><i>Illustrate experience with pictures, stories from real life</i></p> <p><i>Share insights or connections one feels to artwork</i></p>