

**Wayne Central School District  
Ontario Center, NY 14519**

Math  
**Math  
Curriculum**

***SECOND GRADE***  
**Draft**

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**Curriculum Team**

Kim Saxby  
JoAnn Harder  
Cathy Contino  
Nancy Domm  
Mary Ann Gardner

**Scope and Sequence Team**

Linda Casey, Ontario Primary  
Marlena Dietrich, Ontario Primary  
Anne Koestner, Freewill Elementary  
Donna Stalker, Ontario Elementary  
Lynn Young, Middle School  
Anne Willkens Leach, District Office



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# **I. District Philosophy**

**The Wayne Central School District believes that the goal of education is the all-around development of each student. The role of the school is to enable individuals to develop to their fullest potential.**

**The school, in cooperation with the home and community, will assist the student with intellectual, social, cultural, emotional, physical and moral growth. The school should help create within each student an awareness of civic responsibilities and respect for authority to assist the student in becoming a well-integrated, responsible person capable of assuming a vital role in an evolving civilization.**

**The Wayne Central School District subscribes to the general theory of individual differences; namely, that each student is an individual and has innate abilities, ambitions, and emotions. In the process of educating this individual, the program should provide a challenge while reflecting a concern for needs based on individual capabilities.**

**The Wayne Central School District further subscribes to the following fundamental principles:**

- 1. Children, regardless of potential, are capable of learning and acquiring the skill and knowledge needed to function to the best of their ability in our society,**
- 2. Our responsibility is to see that children learn. The energies of all participants should be focused on achieving the desired outcomes. Accountability does not end with following established rules and procedures; its essence is found in results,**
- 3. Minimum competence, while necessary, is not enough. Successful participation in our society demands much more. All children are entitled to approved curriculum, to instructional methods, and to expectations that challenge them to perform at their best, and help them to become truly proficient in knowledge and skills,**
- 4. Every child in New York State is entitled to the resources necessary to provide the sound, basic education that the state constitution requires,**
- 5. Each participant in the educational system should have the opportunity to effectively discharge his or her responsibility, and each participant should be held accountable for achieving desired results. This principle applies to all participants in the educational process – students, parents, teachers, counselors, librarians, administrators, the Board of Education, and others,**
- 6. Achievement of desired results by individuals and groups should be rewarded. Creativity in our students needs to be nurtured and encouraged. Occasional failure in a large and diverse system is probably unavoidable. However, failure should not be permitted to persist. When it occurs, with either individuals or groups, help should be provided and the situation changed.**



## **II. District Mission Statement:**

**Based upon the belief that all students can learn, the staff of Wayne Central School district accepts the responsibility to teach all students regardless of differences, the fundamental skills. We further accept the responsibility to challenge all students to attain higher levels of achievement. Wayne Central will provide the opportunity, environment, and encouragement to meet this goal while developing the whole child physically, emotionally, and culturally.**





# III. NYS Learning Standards:

## **Health, Physical Education, and Home Economics**

1. Personal Health and Fitness – Students will have the necessary knowledge and skills to establish and maintain physical fitness, participate in physical activity, and maintain personal health.
2. A Safe and Healthy Environment – Students will acquire the knowledge and ability necessary to create and maintain a safe and healthy environment
3. Resource Management – Students will understand and be able to manage their personal and community resources.

## **Mathematics, Science, and Technology**

1. Analysis, Inquiry, and Design – Students will use mathematical analysis, scientific inquiry, and engineering design, as appropriate, to pose questions, seek answers, and develop solutions.
2. Information Systems – Students will access, generate, process, and transfer information using appropriate technologies
3. Mathematics – Students will understand mathematics and become mathematically confident by communicating and reasoning mathematically, by applying mathematics in real-world settings, and by solving problems through the integrated study of number systems, geometry, algebra, data analysis, probability, and trigonometry.
4. Science – Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
5. Technology – Students will apply technological knowledge and skills to design, construct, use, and evaluate products and systems to satisfy human and environmental needs.
6. Interconnectedness: Common Themes – Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
7. Interdisciplinary Problem Solving – Students will apply the knowledge and thinking skills of mathematics, science, and technology to address real-life problems and make informed decisions.

## **English Language Arts**

1. Students will listen, speak, read and write for information and understanding. As listeners and readers, students will collect data, facts and ideas; discover relationships, concepts, and generalizations; and use knowledge generated from oral, written, and electronically produced texts. As speakers and writers, they will use oral and written language that follows the accepted conventions of the English language to acquire, interpret, apply, and transmit information.
2. Language for Literary Response and Expression – Students will read and listen to oral, written, and electronically produced texts and performances from American and world literature; relate texts and performances to their own lives; and develop an understanding of the diverse social, historical, and cultural dimensions the texts and performances represent. As speakers and writers. Students will use oral and written language that follows the accepted conventions of the English language for self-expression and artistic creation.
3. Language for Critical Analysis and Evaluation – Students will listen, speak, read and write for critical analysis and evaluation. As listeners and readers, students will analyze experiences, ideas, information, and issues presented by others using a variety of established criteria. As speaker and writers, they will use oral and written language that follows the accepted conventions of the English language to present, from a variety of perspectives, their opinions and judgements on experiences, ideas, information and issues.
4. Language for Social Interaction – Students will listen, speak, read, and write for social interaction. Students will use oral and written language that follows the accepted conventions of the English language for effective social communication with a wide variety of people. As reader and listeners, they will use the social communications of others to enrich their understanding of people and their views.

## **Languages Other Than English**

1. Communication Skills – Students will be able to use a language other than English for communication.
2. Cultural Understanding – Students will develop cross-cultural skills and understandings.

## **The Arts**

1. Creating, Performing, and Participating in the Arts – Students will actively engage in the processes that constitute creation and performance in the arts (dance, music, theatre, and visual arts) and participate in various roles in the arts.
2. Knowing and Using arts materials and Resources – Students will be knowledgeable about and make use of the materials and resources available for participation in the arts in various roles.
3. Responding to and Analyzing Works of Art – Students will respond critically to a variety of works in the arts, connecting the individual work to other works and to other aspects of human endeavor and thought.
4. Understanding the Cultural Contributions of the Arts – Students will develop an understanding of the personal and cultural forces that shape artistic communication and how the arts in turn shape the diverse cultures of past and present society.

## **Career Development and Occupational Studies**

1. Career Development – Students will be knowledgeable about the world of work, explore career options, and relate personal skills, aptitudes, and abilities to future career decisions.
2. Integrated Learning – Students will demonstrate how academic knowledge and skills are applied in the workplace and other settings.
3. Universal Foundation Skills – Students will demonstrate mastery of the foundation skills and competencies essential for success in the workplace.
4. Career Majors – Students who choose a career major will acquire the career-specific technical knowledge/skills necessary to progress toward gainful employment, career advancement, and success in postsecondary programs.

## **Social Studies**

1. History of the United States and New York – Students will use a variety of intellectual skills to demonstrate their understanding of major ideas, eras, themes, developments, and turning points in the history of the United States and New York.
2. World History – Students will use a variety of intellectual skills to demonstrate their understanding of major ideas, eras, themes, developments and turning points in world history and examine the broad sweep of history from a variety of perspectives.
3. Geography – Students will use a variety of intellectual skills to demonstrate their understanding of the geography of the interdependent world in which we live – local, national and global – including the distribution of people, places, and environments over the Earth’s surface.
4. Economics – Students will use a variety of intellectual skills to demonstrate their understanding of how the United States and other societies develop economic systems and associated institutions to allocate scarce resources, how major decision-making units function in the United States and other national economies, and how an economy solves the scarcity problem through market and nonmarket mechanisms.
5. Civics, Citizenship, and Government – Students will use a variety of intellectual skills to demonstrate their understanding of the necessity for establishing governments; the governmental system of the United States Constitution; the basic civil values of American constitutional democracy; and the roles, rights, and responsibilities of citizenship including avenues of participation.

# IV. Commencement Outcomes

## "Adult Roles, Skills & Knowledge"

### **CITIZEN**

A citizen is a responsible, law-abiding member of society who:

- Has a strong sense of values;
- Knows right from wrong;
- Is aware of community news, issues and norms;
- Accepts diversity in ethnicity and belief;
- Has knowledge of government at all levels and issues relative to each;
- Associates with others in positive and productive ways.

### **LIFE - LONG LEARNER**

A life-long learner is one who perseveres, is self-motivated, is innately curious, focused and:

- Is able to set goals;
- Adheres to deadlines/due-dates, has time management skills and abilities;
- Is a problem solver, can define problems, analyze information and task analyze/prioritize potential solutions, has the ability to select the best "tool/strategy" for the situation, and can enlist others in the process of evaluation and refocusing.

### **LEADER**

A leader is a problem solver with effective communication skills. He/she has an ability to motivate others and:

- Is a strong willed person with vision, beliefs and convictions to carry out each.
- Is able to recognize and effectively use all resources, such as material, time and human
- Is responsible and accountable for self and others.

### **WORKER/WAGE EARNER/BUSINESS OWNER**

A worker/wage earner is an individual who is trust worthy, moral and ethical, and who:

- Possess basic job skills with a willingness to change, grow and develop new skills;
- Is a good communicator;
- Demonstrates leadership skills and initiative and the ability to work as a team player;
- Is responsible, reliable and respectful to others;
- Has the ability to make sound decisions.

## **CONSUMER**

A consumer is an individual who has knowledge of the global economy and:

- Utilizes and applies budgeting skills and credit awareness;
- Maintains long-terms personal financial planning (savings, banking, retirement);
- Understand one's rights, responsibilities and risks.

## **COUNSELOR/TEACHER/MENTOR**

A counselor/teacher/mentor is an individual who is patient, self-confident, assertive leader who:

- Is a problem solver and can guide others to solve problems;
- Is an active listener;
- Is aware of issues, societal, family, religious differences and different customs;
- Has interpersonal skills and values others opinions.

## **PARENT/FAMILY MEMBER**

A parent/family member is an individual who:

- Is nurturing and loving;
- Displays flexibility;
- Has high character and morals;
- Is accountable and consistent with respect to expectations and follow through;
- Becomes actively involved in their children and family's education and other pursuits.

## **FRIEND**

A friend is an individual who shows great interest and respect for others, and who:

- Is non-judgmental and available when a time of need arises;
- Is unselfish, honest, supportive, caring and genuine;
- Is an open-minded listener who seeks to understand before being understood;
- Give him/herself to other without expectations of compensation or return of favor.

# V. Scope and Sequence

<b><u>Strand</u></b>	<b>Standard</b>	<b>PK</b>	<b>K</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b><u>Numbers and Numeration</u></b> <b>Conservation of Numbers</b>											
<b>N1 One to one correspondence</b>	<b>2A</b>	<b>T</b>	<b>M</b>	<b>R</b>							
<b>N2 Counting cardinal numbers up to 100 by ones and tens</b>	<b>2A, 2D</b>	<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>	<b>R</b>					
<b>N3 Counting to 100, forward and backward by ones and twos, on a <i>number line</i> matching of words and symbols 0-15</b>	<b>2A</b>			<b>M</b>	<b>R</b>	<b>R</b>	<b>R</b>				
<b>N4 Place value to 100</b>	<b>2C</b>		<b>T</b>	<b>M</b>	<b>R</b>	<b>R</b>					
<b>N5 Estimate quantity and grouping by using manipulatives, expanded notation <math>17=10+7</math></b>	<b>6A</b>		<b>T</b>	<b>M</b>	<b>R</b>	<b>R</b>					
<b>N6 Introduce concept of <i>odd and even</i></b>	<b>2B</b>		<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>					
<b>N7 Introduce symbols =,&lt;,&gt;</b>	<b>7B</b>		<b>I</b>	<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>	<b>R</b>			
<b>N8 Counting ordinal numbers 1-5</b>	<b>2A, 2D</b>	<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>						
<b>N9 Counting ordinal numbers 6-10</b>	<b>2A, 2D</b>		<b>I</b>	<b>M</b>	<b>R</b>						
<b>N10 Develop concept of <i>first, middle, last</i></b>	<b>2A</b>	<b>I</b>	<b>M</b>	<b>R</b>							
<b>N11 Investigate patterns for <i>sums and differences</i> using concrete models</b>	<b>3A</b>		<b>I</b>	<b>M</b>	<b>R</b>	<b>R</b>					

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<b><u>Strand</u></b>	<b>Standard</b>	<b>PK</b>	<b>K</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>N12 Counting orally ordinal numbers 1st to 31<sup>st</sup> and beyond</b>	<b>2A, 2B</b>		<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>					
<b>N13 Count to 1,000</b>	<b>2A, 2B</b>			<b>I</b>	<b>M</b>	<b>R</b>					
<b>N14 Count by 2's, 3's 4's 5's and 10's using a number line and number charts</b>	<b>2A, 2B</b>		<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>					
<b>N15 Write numbers 0-10</b>	<b>7B</b>	<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>						
<b>N16 Place value to 999, expanded notation 999=9 hundreds+9 tens + 9 ones: 900 + 90 + 9</b>	<b>2B</b>				<b>T</b>	<b>M</b>	<b>R</b>				
<b>N17 Rounding using a number line to 100</b>	<b>6A</b>			<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>				
<b>N18 Count cardinal numbers through 100,000</b>	<b>2A</b>				<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>			
<b>N19 Count ordinal numbers through 500</b>	<b>2A</b>				<b>I</b>	<b>T</b>	<b>M</b>				
<b>N20 Count to 100's by 2's, 3's, 4's, 5's and 10's</b>	<b>2B</b>			<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>				
<b>N21 Use place value in <i>decimals</i> and in reading numbers through 100,000 with money</b>	<b>2A</b>				<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>			
<b>N22 Round numbers to hundreds</b>	<b>6A</b>				<b>I</b>	<b>M</b>	<b>R</b>				
<b>N23 Round numbers to thousands</b>	<b>6A</b>					<b>T</b>	<b>M</b>	<b>R</b>			
<b>N24 Introduce concept of <i>positive and negative</i> integers (temperature)</b>	<b>2B</b>			<b>I</b>	<b>I</b>	<b>M</b>	<b>R</b>	<b>R</b>			
<b>N25 Predict odd or even numbers in addition and subtraction</b>	<b>2B, 7B</b>				<b>T</b>	<b>M</b>	<b>R</b>				
<b>N26 Read and write whole numbers to hundred millions</b>	<b>2A, 2C</b>					<b>I</b>	<b>M</b>	<b>R</b>	<b>R</b>		
<b>N27 Skip count to numbers greater than 100</b>	<b>2B</b>			<b>I</b>	<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>	<b>R</b>		
<b>N28 Extend place value to concepts to millions and hundredths</b>	<b>2C</b>				<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>			
<b>N29 Round numbers to nearest <i>whole number</i></b>	<b>6D</b>				<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>			
<b>N30 Predict when <i>product</i> of two numbers will be odd or even</b>	<b>2B, 7B</b>					<b>T</b>	<b>M</b>	<b>R</b>			

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<b><u>Strand</u></b>	<b>Standard</b>	<b>PK</b>	<b>K</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>N31 Continue discussion of positive and negative numbers, temperature</b>	<b>2B</b>						<b>M</b>	<b>R</b>			
<b>N32 Look for patterns in <i>sequences</i> of positive numbers</b>	<b>1B</b>			<b>I</b>	<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>			
<b>N33 Read and write numbers to one billion</b>	<b>2A</b>						<b>T</b>	<b>M</b>	<b>R</b>		
<b>N34 Investigate powers of 10 in place value (hundreds place is 10 squared or 10x10)</b>	<b>2A</b>							<b>I</b>	<b>T</b>		
<b>N35 Express numbers in expanded notation using powers of 10</b>	<b>2A</b>						<b>I</b>	<b>M</b>	<b>R</b>		
<b>N36 Round off numbers to nearest 10,000</b>	<b>6A</b>						<b>I</b>	<b>M</b>	<b>R</b>		
<b>N37 Use number line as aid in understanding negative concept</b>	<b>2D</b>							<b>M</b>	<b>R</b>		

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<u>Strand</u>	Standard	PK	K	1	2	3	4	5	6	7	8
<u><i>Operations With Whole Numbers and Integers</i></u>											
O1 <i>Addition and subtraction of whole numbers: combine sets to produce new sets and explore the idea of one more</i>	3A	I	T	M	R	R					
O2 <i>Sharing of sets such as cookies or crayons as objects for Multiplication and Division</i>	3A		T	M	R	R					
O3 <i>Introduce role of zero in addition and subtraction</i>	3B, 3C		T	M	R	R					
O4 <i>Practice addition and subtraction of sums and differences through 10</i>	3A	I	T	M	R	R					
O5 <i>Add three numbers with sum being 10 or less</i>	3D		I	M	R	R					
O6 <i>Develop concept of order</i>	3C, 3D		I	M	R	R					
O7 <i>Regrouping of two digit numbers</i>	3A				T	M					
O8 <i>Explore inequality in number sentences 2&lt;3</i>	7C		I	T	M	R					
O9 <i>Explore different groupings when adding three or more numbers (associative property) 2+(6+4) with or without manipulatives</i>	3D		I	T	M	R					
O10 <i>Show inverse operations (addition and subtraction)</i>	3A			I	M	R					
O11 <i>Explore multiplication and division through sharing sets or groups</i>	3B			I	T	M					
O12 <i>Show inverse operations of multiplication and division</i>	3B, 3C				T	M	R				

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<b>O13 Show that order of factors in multiplication problems does not change answer (cumulative property)</b>	<b>3B, 3C</b>			<b>T</b>	<b>M</b>	<b>R</b>					
<b>O14 Practice <i>estimation</i> with operations</b>	<b>6B</b>				<b>T</b>	<b>M</b>	<b>R</b>				
<b>O15 Addition and subtraction mastering sums and differences through 18</b>	<b>3A, 3C</b>			<b>T</b>	<b>M</b>	<b>R</b>					
<b>O16 Add and subtract three digit numbers with no regrouping</b>	<b>3A</b>				<b>T</b>	<b>M</b>					
<b>O17 Addition and subtraction up to two digit numbers requiring regrouping</b>	<b>3A</b>				<b>T</b>	<b>M</b>					
<b>O18 Add and subtract 2,3, and 4 digit numbers totaling 10,000 or less</b>	<b>3A</b>					<b>M</b>	<b>R</b>				
<b>O19 Explore role of 0 and 1 in multiplication (identify)</b>	<b>3C</b>				<b>I</b>	<b>T</b>	<b>M</b>				
<b>O20 Experiment with grouping (associative of multiplication)</b>	<b>3D</b>					<b>T</b>	<b>M</b>				
<b>O21 Work with multiplication and division products and quotients through 100</b>	<b>3C</b>				<b>I</b>	<b>T</b>	<b>M</b>				
<b>O22 Study of algorithms for division (one digit divisor)</b>	<b>3A</b>					<b>T</b>	<b>M</b>				
<b>O23 Study of commutative property by name (multiplication)</b>	<b>3B</b>					<b>T</b>	<b>M</b>				
<b>O24 Explore division in finding number of <i>equal</i> groups of items</b>	<b>1A</b>			<b>I</b>	<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>			
<b>O25 Emphasize multiplication and division being inverse operations</b>	<b>3B</b>					<b>T</b>	<b>M</b>	<b>R</b>			
<b>O26 Concepts of <i>equality</i> and <i>inequality</i> in all four operations</b>	<b>7B, 7C</b>					<b>M</b>	<b>R</b>	<b>R</b>			
<b>O27 Add and subtract whole numbers with sums less than one million</b>	<b>3A</b>					<b>T</b>	<b>M</b>	<b>R</b>			

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O28 Subtract whole numbers when zero is in the <i>minuend</i> with regrouping	3A				T	M	R				
O29 Estimation of sums and differences prior to computation	1D, 6E				I	T	M	R	R		
O30 Find missing addends in an addition sentence	1D			I	T	T	M	R			
O31 Introduce concept of a <i>prime factor</i>	2B						M	R			
O32 Multiplication of three digit numbers by two digits	3A					I	M	R			
O33 Multiplication by <i>multiples</i> of 10	3A					T	M	R			
O34 Find <i>common factors</i> of groups of numbers less than 100	2B, 2D					T	M	R			
O35 Begin concept of <i>least common factor</i> and <i>greatest common multiple</i>	2B, 2D						T	M	R		
O36 Find <i>quotient</i> and <i>remainder</i> when three digit number is divided by one digit number	3A					T	M	R			
O37 Find <i>quotient</i> and <i>remainder</i> when three digit number is divided by a two digit number	3B						T	M			
O38 Use inverse operations to check division by multiplication	3B					T	M	R			
O39 Investigate <i>distributive</i> property $326 \times 4 = (300 \times 4) + (20 \times 4) + 6 \times 4$ )	3B					T	M	R			
O40 Quick review of operations	3A							M			
O41 Literal problems using single operations across curriculum	3A					T	T	M	R		
O42 Develop concept of <i>order of operation</i> (addition, subtraction, multiplication, and division)	3B							I	T	M	
O43 Continue to find greatest common factor and least common multiple	2C							T	M	R	

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<u>Strand</u>	Standard	PK	K	1	2	3	4	5	6	7	8
<u><i>Fractions and Decimals</i></u>											
F1 Awareness in daily life (money)	5B		M								
F2 Concept of <i>half</i>	2B		M								
F3 Develop concept of unit <i>fractions</i>	2B			M	R	R					
F4 Develop concept of oneness	2B			M	R	R					
F5 Explore many to one (five fingers to one hand)	2E			M							
F6 Use money to develop concept of <i>decimals</i>	2C			T	M						
F7 Relate units to whole	2D				T	M	R				
F8 Unit fractions to 1/8, 1/10	2D				T	M	R				
F9 Location of halves on number line and ruler	2D				T	M	R				
F10 Find 1/2, 1/3, 1/4 of a collection	2D				T	M	R				
F11 Relate many to one in preparation for the concept of <i>ratio</i> (5 fingers to 1 hand)	2E			I	T						
F12 Concept of <i>ratio</i>	2E				T	M	R				
F13 Explore money notation using two place decimals	2C			I	M	R					
F14 Order unit fractions using < and > symbols with denominators 2,3,4,5,6,8,10,12	2B, 2D					T	M	R			
F15 Review concept of $1=2/2$ etc.	2B					M					

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<b>F16 Use terms <i>numerator</i> and <i>denominator</i></b>	<b>2B</b>			<b>I</b>	<b>I</b>	<b>M</b>	<b>R</b>				
<b>F17 Find <i>equivalent</i> fractions</b>	<b>2B</b>					<b>T</b>	<b>M</b>	<b>R</b>			
<b>F18 Relate fractions and decimals to money and <i>metric</i> system</b>	<b>2A</b>					<b>T</b>	<b>M</b>	<b>R</b>			
<b>F19 Add and subtract like denominators</b>	<b>2B</b>					<b>I</b>	<b>T</b>	<b>M</b>			
<b>F20 Add and subtract decimals with one tenth</b>	<b>2B</b>					<b>M</b>	<b>R</b>				
<b>F21 Compare fractions on a number line and decimals to tenths</b>	<b>2B</b>					<b>T</b>	<b>M</b>	<b>R</b>			
<b>F22 Study order of unit fractions</b>	<b>2B</b>					<b>T</b>	<b>M</b>	<b>R</b>			
<b>F23 Correlate the common fraction notation for decimals to the tenths place (<math>1/10 = 0.1, .1</math>, etc.)</b>	<b>2B</b>						<b>M</b>	<b>R</b>			
<b>F24 Add and subtract fractions with unlike denominators</b>	<b>2B</b>						<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>	
<b>F25 Add and subtract decimals to the hundredths place</b>	<b>2D</b>					<b>T</b>	<b>M</b>	<b>R</b>	<b>R</b>		
<b>F26 Multiply decimal to tenths</b>	<b>3A</b>						<b>T</b>	<b>M</b>	<b>R</b>		
<b>F27 Practice locating decimal points in products</b>	<b>2D</b>						<b>T</b>	<b>M</b>	<b>R</b>		
<b>F28 Develop concept of <i>proper</i> and <i>improper</i> fractions</b>	<b>2A</b>						<b>T</b>	<b>M</b>	<b>R</b>		
<b>F29 Develop concept of <i>percent</i> in multiples of five</b>	<b>2E</b>						<b>T</b>	<b>M</b>	<b>R</b>		
<b>F30 Continue addition and subtraction of fractions with like and unlike denominators</b>	<b>3A</b>						<b>T</b>	<b>M</b>	<b>R</b>		
<b>F31 Change improper fractions to <i>mixed number</i></b>	<b>2A</b>							<b>T</b>	<b>M</b>	<b>R</b>	
<b>F32 Compare fractions to fractions and decimals to decimals</b>	<b>2D</b>							<b>T</b>	<b>M</b>	<b>R</b>	
<b>F33 Addition and subtraction of decimals with hundredths and thousandths</b>	<b>3A</b>						<b>T</b>	<b>M</b>	<b>R</b>		

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<b>F34 Multiply and divide decimals to hundredths</b>	<b>3A</b>						<b>T</b>	<b>M</b>	<b>R</b>		
<b>F35 Multiply and divide decimals by powers of 10</b>	<b>3A</b>							<b>I</b>	<b>T</b>	<b>M</b>	
<b>F36 Round off decimals to thousandths</b>	<b>6A</b>							<b>T</b>	<b>M</b>	<b>R</b>	
<b>F37 Use pictures and or graphic illustrations to demonstrate multiplication and division of fractions</b>	<b>1A, 3D</b>							<b>M</b>	<b>R</b>		
<b>F38 Practice writing equivalent forms of common fractions and decimals <math>1/2 = .5</math></b>	<b>2A, 2B</b>							<b>T</b>	<b>M</b>	<b>R</b>	
<b>F39 Multiplication of fractions</b>	<b>2A, 2B</b>							<b>T</b>	<b>M</b>		
<b>F40 Multiplication and mixed numbers and division of fractions</b>	<b>2A, 2B</b>							<b>I</b>	<b>M</b>		

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<b><u>Probability and Statistics</u></b>											
<b>P1 Organize and <i>classify data</i> (e.g. color, size, and shape)</b>	<b>4B, 5D</b>	<b>I</b>	<b>M</b>								
<b>P2 <i>Likeness and difference</i> concept of more, less and same</b>	<b>4B</b>		<b>T</b>	<b>M</b>	<b>R</b>						
<b>P3 <i>Certainty and uncertainty/</i> guessing and estimation</b>	<b>6A, 6B</b>		<b>T</b>	<b>M</b>	<b>R</b>						
<b>P4 Collect data and record <i>results</i></b>	<b>4B</b>		<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>					
<b>P5 Practice prediction</b>	<b>6C</b>		<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>					
<b>P6 Collect and tabulate data</b>	<b>4B, 4C</b>		<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>					
<b>P7 Arrange data using <i>tables</i> and <i>graphs</i></b>	<b>4B, 4C</b>		<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>					
<b>P8 Compare data</b>	<b>4B, 5E, 7D</b>		<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>					
<b>P9 Investigate beginning <i>logic</i></b>	<b>1D</b>		<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>					
<b>P10 Collect <i>statistical data</i> from newspapers, magazines, polls, and activities in other content areas</b>	<b>6G</b>				<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>			
<b>P11 Organize data using tables and bar graphs</b>	<b>4B, 7F</b>		<b>I</b>	<b>I</b>	<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>			
<b>P12 Discuss graphs used in everyday publications</b>	<b>4B, 7F</b>				<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>			
<b>P13 Conduct experiments and predict outcomes</b>	<b>6F</b>				<b>T</b>	<b>M</b>	<b>R</b>	<b>R</b>			

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<b>P14 Use fractional notation to express probability of outcomes</b>	<b>6H</b>				<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>			
<b>P15 Use orderly methods to count number of <i>outcomes</i> in an experiment (pictures, models, tree diagrams)</b>	<b>6H</b>				<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>			
<b>P16 Introduce logic concepts</b>	<b>1D</b>			<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>	<b>R</b>			
<b>P17 Make <i>frequency</i> tables from <i>tallied</i> data</b>	<b>5E, 6G</b>			<b>I</b>	<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>			
<b>P18 Use models, pictures and tree diagrams</b>	<b>6E</b>					<b>T</b>	<b>M</b>	<b>R</b>			
<b>P19 Examine <i>range</i> and differences between smallest and largest</b>	<b>7F</b>				<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>			
<b>P20 Develop concept of <i>average</i> (<i>arithmetic mean</i>)</b>	<b>7F</b>						<b>T</b>	<b>M</b>			
<b>P21 Continue to explore methods of collecting and analyzing data</b>	<b>5D</b>					<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>		
<b>P22 Use tables, graphs and <i>diagrams</i> to represent collected data</b>	<b>5E</b>					<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>		
<b>P23 Use <i>compass</i> and <i>protractors</i> to construct circle graphs</b>	<b>4I</b>							<b>I</b>	<b>I</b>	<b>T</b>	<b>M</b>
<b>P24 Continue to investigate logic concepts</b>	<b>1D</b>					<b>T</b>	<b>M</b>	<b>R</b>	<b>R</b>		
<b>P25 Compare bar, line and circle graphs which represent same information</b>	<b>5E</b>							<b>T</b>	<b>M</b>	<b>R</b>	
<b>P26 Determine <i>probabilities</i> of <i>independent</i> events</b>	<b>6E</b>					<b>I</b>	<b>T</b>	<b>T</b>	<b>M</b>	<b>R</b>	
<b>P27 Make <i>arrangements</i> and <i>combinations</i></b>	<b>6C</b>						<b>T</b>	<b>T</b>	<b>M</b>	<b>R</b>	

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<u><i>Geometry and Measurement</i></u>											
G1 Compare <i>dimensions</i> of various objects using terms like larger than, taller than, smaller than, shorter than, as long as, farther, or nearer; measure objects using non-standard units	5A, 5C	I	M	R							
G2 Compare <i>capacity</i> of containers using sand and water	5B	I	T	M	R						
G3 Compare temperatures/duration of time	5A, 5B	I	M	R							
G4 Weighing experiences using terms heavier than and lighter than	5A		T	M	R						
G5 Observe objects in the environment that have geometric shapes; make geometric pictures, patterns, and designs using geometric shapes.	4D, 7A, 7E	I	M	R							
G6 Study time to the hour, day, month, and year using clocks and calendars	5A, 5B	I	T	M	R						
G7 Investigate how to make change for amounts of money	5B		I	T	M	R					
G8 Use meter, centimeter, and <i>decimeter</i> for measuring length	5A, 5C			T	M	R	R				
G9 Introduce kilogram, liter, and Celsius thermometer	5C			T	M	R					
G10 Identify shapes in everyday life	4E	I	T	M	R						
G11 <i>Measure</i> objects using non-standard units	5A, 5B		I	M	R						

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<b>G12</b> <i>Weigh</i> objects using grams, kilograms	<b>5B, 5C</b>				<b>M</b>	<b>R</b>					
<b>G13</b> Measure time in half hours, quarter hours, and 5 minutes intervals	<b>5A, 5B</b>			<b>I</b>	<b>T</b>	<b>M</b>					
<b>G14</b> Make change up to \$1.00	<b>5C</b>				<b>T</b>	<b>M</b>	<b>R</b>				
<b>G15</b> Measure liquids in liters, milliliters	<b>5C</b>				<b>M</b>	<b>R</b>					
<b>G16</b> Practice addition of measures	<b>3A</b>				<b>M</b>	<b>R</b>					
<b>G17</b> Use shapes to create designs	<b>4A</b>		<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>					
<b>G18</b> Observe two and three dimensional objects	<b>7G</b>			<b>I</b>	<b>M</b>	<b>R</b>					
<b>G19</b> Introduce English units of measure	<b>5D</b>		<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>					
<b>G20</b> Select and use appropriate measurement tools	<b>5D</b>			<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>				
<b>G21</b> Estimate using actual units of measure	<b>6B</b>			<b>T</b>	<b>M</b>	<b>R</b>					
<b>G22</b> Identify equivalent measures within a measuring system	<b>5B</b>				<b>T</b>	<b>M</b>	<b>R</b>				
<b>G23</b> Introduce <i>coordinate geometry</i> (positive)	<b>4B</b>					<b>M</b>					
<b>G24</b> Relate the clock to fractions as well as circle construction	<b>5B</b>			<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>				
<b>G25</b> Find the <i>perimeter</i> of <i>polygons</i>	<b>5D</b>				<b>T</b>	<b>M</b>	<b>R</b>				
<b>G26</b> Investigate properties of plane figures (number of sides, number of angles)	<b>4A</b>					<b>T</b>	<b>M</b>	<b>R</b>			
<b>G27</b> <i>Plane figures</i> (polygons and circles)	<b>4E</b>		<b>I</b>	<b>T</b>	<b>T</b>	<b>M</b>	<b>R</b>				
<b>G28</b> Explore three dimensional figures to understand <i>volume</i> (taking up space)	<b>4C</b>					<b>T</b>	<b>M</b>	<b>R</b>	<b>M</b>		
<b>G29</b> Learn how to use a compass and protractor	<b>4E</b>						<b>I</b>	<b>T</b>	<b>M</b>		

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<b>G30</b> Continue to investigate <i>symmetry</i>	<b>4E</b>			<b>I</b>	<b>T</b>	<b>M</b>					
<b>G31</b> Find perimeter, area and volume of specific figures by counting units	<b>4C</b>					<b>T</b>	<b>M</b>	<b>R</b>			
<b>G32</b> Use rulers, protractors and compasses to construct plane geometric figures (circles and squares, etc.)	<b>4E</b>					<b>I</b>	<b>T</b>	<b>T</b>			
<b>G33</b> Use terms such as polygon, circle, chord, radius, angle, diameter, face edge, vertex, line segment, point parallel and perpendicular and intersecting	<b>4E</b>					<b>I</b>	<b>T</b>	<b>T</b>			
<b>G34</b> Extend work in coordinate geometry to both positive and negative coordinates	<b>2B</b>					<b>I</b>	<b>T</b>	<b>M</b>			
<b>G35</b> Be familiar with common metric units used in everyday life	<b>5A</b>					<b>I</b>	<b>T</b>	<b>M</b>			
<b>G36</b> Continue to study perimeter and area using graph paper and manipulative	<b>5B</b>					<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>		
<b>G37</b> Develop formulas for the area and perimeter of squares and rectangles	<b>5C</b>					<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>		
<b>G38</b> Measure area and perimeter of rectangles, triangles and irregular polygons using blocks, geoboards, graph paper etc.	<b>5C</b>							<b>T</b>	<b>M</b>		
<b>G39</b> Continue to measure volume (prisms) with manipulatives	<b>5B, 5C</b>							<b>T</b>	<b>M</b>		
<b>G40</b> Continue to measure temperature using <i>Celsius</i> and <i>Fahrenheit</i> thermometers	<b>5A</b>							<b>T</b>	<b>M</b>		
<b>G41</b> Continue to draw and measure plane figures using rulers, protractors, and compasses	<b>4I</b>					<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>		
<b>G42</b> Use pictures to explore <i>similar</i> and <i>congruent</i> figures; symmetry	<b>4H</b>					<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>		

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<b><u>Problem Solving</u></b> <b>Mathematical Reasoning</b>											
<b>P1 Develop number concepts through sorting and classifying</b>	<b>1A</b>	<b>I</b>	<b>M</b>	<b>R</b>							
<b>P2 Integrate comparison of sets and counting with other activities (real life situations)</b>	<b>1A</b>	<b>I</b>	<b>M</b>	<b>R</b>							
<b>P3 Participate in sorting and classifying</b>	<b>1A</b>	<b>I</b>	<b>M</b>	<b>R</b>							
<b>P4 Explore likeness and differences</b>	<b>1A</b>	<b>I</b>	<b>M</b>	<b>R</b>							
<b>P5 Begin to recognize number sequence</b>	<b>1B</b>	<b>I</b>	<b>M</b>	<b>R</b>							
<b>P6 Relate counting to repeated patterns</b>	<b>1B</b>	<b>I</b>	<b>M</b>	<b>R</b>							
<b>P7 Describe rationale for grouping or sequencing</b>	<b>1C</b>	<b>I</b>	<b>M</b>	<b>R</b>							
<b>P8 Categorize objects by attributes</b>	<b>1A</b>		<b>T</b>	<b>M</b>	<b>R</b>						
<b>P9 Observe likenesses and differences using at least two categories at a time</b>	<b>1A</b>		<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>					
<b>P10 Draw pictures and use manipulatives to represent problems</b>	<b>1A</b>		<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>					
<b>P11 Use models, facts and relationships to draw conclusions</b>	<b>1A</b>						<b>T</b>	<b>M</b>	<b>R</b>		
<b>P12 Use statements “and” or “not”</b>	<b>1A</b>							<b>I</b>	<b>T</b>		
<b>P13 Use patterns and relationships to analyze math situations</b>	<b>1B</b>						<b>T</b>	<b>M</b>	<b>R</b>		
<b>P14 Be able to justify answers, math checks</b>	<b>1C</b>					<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>		
<b>P15 Use logical reasoning to reach simple conclusions</b>	<b>1D</b>					<b>I</b>	<b>T</b>	<b>M</b>	<b>R</b>		
<b>P16 Apply a variety of reasoning strategies</b>	<b>1A</b>						<b>I</b>	<b>T</b>	<b>M</b>		
<b>P17 Make conclusions based on inductive reasoning</b>	<b>1C</b>							<b>I</b>	<b>T</b>		
<b>P18 Justify conclusions involving simple and compound</b>	<b>1D</b>							<b>I</b>	<b>T</b>		

Key:

**I** Skill is introduced but not benchmarked

**T** Skill receives considerable instruction (taught but not benchmarked)

**M** Concept is mastered and benchmarked. Note that a skill may be introduced and benchmarked in one year. In those cases, only an M appears

**R** Concept is reviewed or expanded

# VI. Course Overview

Using multi-sensory approach students will explore mathematical concepts and skills; apply problem-solving strategies, and make mathematical connections to real world or everyday situations. Students will be given opportunities to explain their thinking in both verbal and written form.

The concepts and skills include these 7 Strands.

1. Number and Numeration
2. Operations with Whole Numbers and Integers
3. Fractions and Decimals
4. Geometry and Measurement
5. Probability and Statistics
6. Problem Solving

# VII. Instructional Outline

## 1. Number and Numeration

- a. Use whole numbers to quantify groups of objects, ie. counting, skip counting, by 2's, 3's, 1:1 correspondence
- b. Use concrete materials to model numbers and number relationships for whole numbers
- c. Relate counting to grouping and place value, ie. 10's and 1's, expanded notation.
- d. Recognize the order of whole numbers and commonly used fractions, ie. Ordinal number, first and last,
- e. Ratio?
- f. Understand and apply the concept of even and odd
- g. Read and write numerals to 1000
- h. Explore rounding numbers to the nearest 10 and 100

## 2. Operations

- a. Add and subtract whole numbers to 100
- b. Develop strategies for selecting the appropriate computational and operational in problem-solving
- c. Know single digit addition and subtraction to 18 and develop readiness for multiplication and division
- d. Understand the commutative and associative properties
- e. Find and calculate missing addend in an addition sentence
- f. Regrouping of 2 digit numbers for addition and subtraction
- g. Explore multiplication and division through sharing sets or groups
- h. Show how multiplication and division are related through manipulatives
- i. Practice estimation with operation  $(9+8)=20$

## 3. Fractions and Decimals

- a. Use concrete materials to model fractions  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{3}$ ,  $\frac{1}{5}$   $\frac{1}{8}$   $\frac{1}{10}$
- b. Use fractions a part of a whole or part of a collection a collection of things (set)
- c. Use terms numerator and denominator
- d. Use decimal point in writing money
- e. Explore concept of ratio
- f. Relate many to one in preparation for the concept of ratio (5 finger to 1 hand)

## 4. Geometry and Measurement

- a. Use concrete materials to explore geometric shapes: **Plane**: squares, circles, rectangles, triangle, diamond. **Solids**: sphere, cube, rectangular prism, cone, cylinder
- b. Construct charts and graphs to display and analyze real-world
- c. Use manipulatives, pictures, and diagrams to explain the operation of everyday procedures
- d. Use variables such as height, weight, and hand size to predict changes over time
- e. Measure objects using non-standard units
- f. Measure objects using standard units of measurement, metric and English
- g. Select appropriate standard and non-stand measurement tools in measurement tools in measurement activities.
- h. Understand the attributes of area, length, capacity, volume, weight, time, temperature, and money.
- i. Review names and values of coins, 1, 5, 10, 25, 50
- j. Count combination of coin using manipulative
- k. Make change from a dollar
- l. Use decimal points, dollar and cent signs correctly
- m. Measure time to the day month and year using calendar
- n. Measure time in hour, half-hours, quarter hours and 5 minute intervals.
- o. Translate time between analog and digital clocks
- p. Relate the clock to fractions as circles construction,  $\frac{1}{2}$   $\frac{1}{4}$

## **5. Probability and Statistics**

- a. Make quantitative estimates of familiar lengths widths and time intervals and check them against measurements
- b. Practice prediction
- c. Collect data and record results
- d. Tabulate and arrange data using table and graphs
- e. Compare data
- f. Estimate answer before solving problems and compare estimate with solution
- g. Investigate beginning logic

## **6. Problem-Solving and Math Reasoning**

- a. Teach the problem- solving process plan, Identify, Read, locate, information Solve
- b. Make mental pictures
- c. Draw pictures and use manipulatives to solve problems
- d. Use and Try plans
- e. Categorizing objects using attributes using at least two categories
- f. Making and using patterns
- g. Use logical reasoning to determine possible strategies before starting a problem  
Justify their answer and explain the student reached the conclusion

# VIII. Course Benchmarks



# **IX. Units of Study**

# **Unit One**

## **Number and Numeration**

## **A. Unit Benchmarks**

1. Use whole numbers to quantify groups of objects, ie. counting, skip counting, by 2's, 3's, 1:1 correspondence
2. Use concrete materials to model numbers and number relationships
3. for whole numbers
4. Relate counting to grouping and place value, ie. 10's and 1's, expanded notation.
5. Recognize the order of whole numbers and commonly used fractions, ie. Ordinal number, first and last,
6. Ratio?
7. Understand and apply the concept of even and odd
8. Read and write numerals to 1000
9. Explore rounding numbers to the nearest 10 and 100

## **B. Unit Assessment**

## **C. Rubric**



## D. Activities

### 1. Teacher Constructed Activities:

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge**
- 2: Apply in Discipline**
- 3: Apply Across Disciplines**

- 4: Apply to Real World Predictable Situations**
- 5: Apply to Real World Unpredictable Situations**

## 2. Textbook with Teaching Strategies

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

**1: Knowledge**

**2: Apply in Discipline**

**3: Apply Across Disciplines**

**4: Apply to Real World Predictable Situations**

**5: Apply to Real World Unpredictable Situations**

### 3. Computer Assisted Instruction

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge**
- 2: Apply in Discipline**
- 3: Apply Across Disciplines**

- 4: Apply to Real World Predictable Situations**
- 5: Apply to Real World Unpredictable Situations**



#### 4. Cross Disciplinary

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines

- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

5. Miscellaneous

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines

- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

## **E. Vocabulary**

## **F. References and Resources**

# **Unit Two**

## **Operations**

## **A. Unit Benchmarks**

1. Add and subtract whole numbers to 100
2. Develop strategies for selecting the appropriate computational and operational in problem-solving
3. Know single digit addition and subtraction to 18 and develop readiness for multiplication and division
4. Understand the commutative and associative properties
5. Find and calculate missing addend in an addition sentence
6. Regrouping of 2 digit numbers for addition and subtraction
7. Explore multiplication and division through sharing sets or groups
8. Show how multiplication and division are related through manipulatives
9. Practice estimation with operation  $(9+8)=20$

## **B. Unit Assessment**

## **C. Rubric**



## D. Activities

### 1. Teacher Constructed Activities:

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge**
- 2: Apply in Discipline**
- 3: Apply Across Disciplines**

- 4: Apply to Real World Predictable Situations**
- 5: Apply to Real World Unpredictable Situations**



## 2. Textbook with Teaching Strategies

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

**1: Knowledge**

**2: Apply in Discipline**

**3: Apply Across Disciplines**

**4: Apply to Real World Predictable Situations**

**5: Apply to Real World Unpredictable Situations**

### 3. Computer Assisted Instruction

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge**
- 2: Apply in Discipline**
- 3: Apply Across Disciplines**

- 4: Apply to Real World Predictable Situations**
- 5: Apply to Real World Unpredictable Situations**

#### 4. Cross Disciplinary

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines

- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

5. Miscellaneous

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines

- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

## **E. Vocabulary**

## **F. References and Resources**

# **Unit Three**

## **Fractions and Decimals**

## **A. Unit Benchmarks**

1. Use concrete materials to model fractions  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{3}$ ,  $\frac{1}{5}$   $\frac{1}{8}$   $\frac{1}{10}$
2. Use fractions a part of a whole or part of a collection a collection of things (set)
3. Use terms numerator and denominator
4. Use decimal point in writing money
5. Explore concept of ratio
6. Relate many to one in preparation for the concept of ratio (5 finger to 1 hand)

## **B. Unit Assessment**

## **C. Rubric**





## D. Activities

### 1. Teacher Constructed Activities:

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge**
- 2: Apply in Discipline**
- 3: Apply Across Disciplines**

- 4: Apply to Real World Predictable Situations**
- 5: Apply to Real World Unpredictable Situations**

## 2. Textbook with Teaching Strategies

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines

- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

### 3. Computer Assisted Instruction

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge**
- 2: Apply in Discipline**
- 3: Apply Across Disciplines**

- 4: Apply to Real World Predictable Situations**
- 5: Apply to Real World Unpredictable Situations**

#### 4. Cross Disciplinary

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines

- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

5. Miscellaneous

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines

- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

## **E. Vocabulary**

## **F. References and Resources**

# **Unit Four**

## **Geometry and Measurement**



## A. Unit Benchmarks

1. Use concrete materials to explore geometric shapes: **Plane**: squares, circles, rectangles, triangle, diamond. **Solids**: sphere, cube, rectangular prism, cone, cylinder
2. Construct charts and graphs to display and analyze real-world
3. Use manipulatives, pictures, and diagrams to explain the operation of everyday procedures
4. Use variables such as height, weight, and hand size to predict changes over time
5. Measure objects using non-standard units
6. Measure objects using standard units of measurement, metric and English
7. Select appropriate standard and non-stand measurement tools in measurement tools in measurement activities.
8. Understand the attributes of area, length, capacity, volume, weight, time, temperature, and money.
9. Review names and values of coins, 1, 5, 10, 25, 50
10. Count combination of coin using manipulatives
11. Make change from a dollar
12. Use decimal points, dollar and cent signs correctly
13. Measure time to the day month and year using calendar
14. Measure time in hour, half-hours, quarter hours and 5 minute intervals.
15. Translate time between analog and digital clocks
16. Relate the clock to fractions as circles construction,  $\frac{1}{2}$   $\frac{1}{4}$

## B. Unit Assessment

## **C. Rubric**



## D. Activities

### 1. Teacher Constructed Activities:

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge**
- 2: Apply in Discipline**
- 3: Apply Across Disciplines**

- 4: Apply to Real World Predictable Situations**
- 5: Apply to Real World Unpredictable Situations**

## 2. Textbook with Teaching Strategies

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge**
- 2: Apply in Discipline**
- 3: Apply Across Disciplines**

- 4: Apply to Real World Predictable Situations**
- 5: Apply to Real World Unpredictable Situations**

### 3. Computer Assisted Instruction

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge**
- 2: Apply in Discipline**
- 3: Apply Across Disciplines**

- 4: Apply to Real World Predictable Situations**
- 5: Apply to Real World Unpredictable Situations**

#### 4. Cross Disciplinary

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines

- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

5. Miscellaneous

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines

- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations



## **E. Vocabulary**

## **F. References and Resources**

# Unit Five

## Probability and Statistics

## **A. Unit Benchmarks**

1. Make quantitative estimates of familiar lengths widths and time intervals and check them against measurements
2. Practice prediction
3. Collect data and record results
4. Tabulate and arrange data using table and graphs
5. Compare data
6. Estimate answer before solving problems and compare estimate with solution
7. Investigate beginning logic

## **B. Unit Assessment**

## **C. Rubric**



## D. Activities

### 1. Teacher Constructed Activities:

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge**
- 2: Apply in Discipline**
- 3: Apply Across Disciplines**

- 4: Apply to Real World Predictable Situations**
- 5: Apply to Real World Unpredictable Situations**

## 2. Textbook with Teaching Strategies

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines

- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

### 3. Computer Assisted Instruction

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge**
- 2: Apply in Discipline**
- 3: Apply Across Disciplines**

- 4: Apply to Real World Predictable Situations**
- 5: Apply to Real World Unpredictable Situations**



**4. Cross Disciplinary**

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge**
- 2: Apply in Discipline**
- 3: Apply Across Disciplines**

- 4: Apply to Real World Predictable Situations**
- 5: Apply to Real World Unpredictable Situations**

5. Miscellaneous

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines

- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

## **E. Vocabulary**

## **F. References and Resources**

# Unit Six

## Problem Solving and Math Reasoning

## **A. Unit Benchmarks**

1. Teach the problem- solving process plan, Identify, Read, locate, information Solve
2. Make mental pictures
3. Draw pictures and use manipulatives to solve problems
4. Use and Try plans
5. Categorizing objects using attributes using at least two categories
6. Making and using patterns
7. Use logical reasoning to determine possible strategies before starting a problem
8. Justify their answer and explain the student reached the conclusion

## **B. Unit Assessment**

## **C. Rubric**



## D. Activities

### 1. Teacher Constructed Activities:

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge**
- 2: Apply in Discipline**
- 3: Apply Across Disciplines**

- 4: Apply to Real World Predictable Situations**
- 5: Apply to Real World Unpredictable Situations**



## 2. Textbook with Teaching Strategies

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines

- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

### 3. Computer Assisted Instruction

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge**
- 2: Apply in Discipline**
- 3: Apply Across Disciplines**

- 4: Apply to Real World Predictable Situations**
- 5: Apply to Real World Unpredictable Situations**

#### 4. Cross Disciplinary

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines

- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

5. Miscellaneous

Activity	Benchmark	Standard	Application Level
<p><b>a.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>b.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>c.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	
<p><b>d.</b></p> <p><i>Materials:</i></p>		HPEHE: MST: ELA: Arts: LOTE: CDOS: SS:	

**Application Level:**

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines

- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

## **E. Vocabulary**

## **F. References and Resources**

# **X. Course Assessment**

# **XI. Curriculum Review Process**