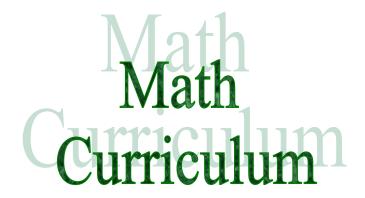
# Wayne Central School District Ontario Center, NY 14519



# KINDERGARTEN Draft

Revised: June 12, 2001 August 15, 2001

Curriculum Team
Tracy LaBarge
Linda Casey
Marty Hanley
Nancy Golden-Guilino
Lauri Gilbert

#### **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

### TABLE OF CONTENTS

- I. District Philosophy
- **II.** District Mission Statement
- III. NYS Learning Standards
- **IV.** Commencement Outcomes
- V. Scope and Sequence
- VI. Course Overview with Major Topics
- VII. Instructional Outline
- VIII. Course Benchmarks
- IX. Units of Study:

Unit One: Numbers and Numeration

Unit Two: Operations with Whole Numbers and Integers

Unit Three: Fractions and Decimals Unit Four: Probability and Statistics Unit Five: Geometry and Measurement

Unit Six: Problem Solving

- X. Course Assessment
- **XI.** Curriculum Review Process

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

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 12

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

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

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

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

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

- 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

| <u>Strand</u>  | Standard   | PK | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--|------------|----|---|---|---|---|---|---|---|---|---|
| O13 Show that order of factors in multiplication problems does not change answer (cumulative property) | 3B, 3C     |    |   | T | M | R |   |   |   |   |   |
| O14 Practice estimation with operations  | 6B         |    |   |   | T | M | R |   |   |   |   |
| O15 Addition and subtraction mastering sums and differences through 18                                 | 3A, 3C     |    |   | T | M | R |   |   |   |   |   |
| O16 Add and subtract three digit numbers with no regrouping  | 3A         |    |   |   | T | M |   |   |   |   |   |
| O17 Addition and subtraction up to two digit numbers requiring regrouping                              | 3A         |    |   |   | T | M |   |   |   |   |   |
| O18 Add and subtract 2,3, and 4 digit numbers totaling 10,000 or less                                  | 3A         |    |   |   |   | M | R |   |   |   |   |
| O19 Explore role of 0 and 1 in multiplication (identify)   | <b>3C</b>  |    |   |   | I | T | M |   |   |   |   |
| O20 Experiment with grouping (associative of multiplication)   | 3D         |    |   |   |   | T | M |   |   |   |   |
| O21 Work with multiplication and division products and quotients through 100                           | <b>3</b> C |    |   |   | Ι | T | M |   |   |   |   |
| O22 Study of algorithms for division (one digit divisor)   | 3A         |    |   |   |   | T | M |   |   |   |   |
| O23 Study of commutative property by name (multiplication)   | 3B         |    |   |   |   | T | M |   |   |   |   |
| O24 Explore division in finding number of equal groups of items  | 1A         |    |   | I | I | T | M | R |   |   |   |
| O25 Emphasize multiplication and division being inverse operations                                     | 3B         |    |   |   |   | T | M | R |   |   |   |
| O26 Concepts of <i>equality</i> and inequality in all four operations                                  | 7B, 7C     |    |   |   |   | M | R | R |   |   |   |
| O27 Add and subtract whole numbers with sums less than one million                                     | 3A         |    |   |   |   | T | M | R |   |   |   |

- 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

| Strand   | Standard   | PK | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--|------------|----|---|---|---|---|---|---|---|---|---|
| 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 prime factor  | 2B         |    |   |   |   |   | M | R |   |   |   |
| O32 Multiplication of three digit numbers by two digits  | 3A         |    |   |   |   | I | M | R |   |   |   |
| O33 Multiplication by multiples of 10  | 3A         |    |   |   |   | T | M | R |   |   |   |
| O34 Find common factors of groups of numbers less than 100   | 2B, 2D     |    |   |   |   | T | M | R |   |   |   |
| O35 Begin concept of least common factor and greatest common multiple                                  | 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 distributive property 326X4= (300X4) + (20X4) +6X4))                                   | 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                                  | <b>2</b> C |    |   |   |   |   |   | T | M | R |   |

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 17

| <u>Strand</u>   | Standard   | PK | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|------------|----|---|---|---|---|---|---|---|---|---|
| Fractions and Decimals  |            |    |   |   |   |   |   |   |   |   |   |
| F1 Awareness in daily life (money)  | 5B         |    | M |   |   |   |   |   |   |   |   |
| F2 Concept of half  | 2B         |    | M |   |   |   |   |   |   |   |   |
| F3 Develop concept of unit fractions  | 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 decimals   | 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) | <b>2E</b>  |    |   | Ι | Т |   |   |   |   |   |   |
| F12 Concept of ratio  | <b>2</b> E |    |   |   | 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 |   |   |   |   |   |

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 18

| Strand   | Standard | PK | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--|----------|----|---|---|---|---|---|---|---|---|---|
| F16 Use terms numerator and denominator  | 2B       |    |   | I | I | M | R |   |   |   |   |
| F17 Find equivalent fractions  | 2B       |    |   |   |   | T | M | R |   |   |   |
| F18 Relate fractions and decimals to money and metric system   | 2A       |    |   |   |   | T | M | R |   |   |   |
| F19 Add and subtract like denominators   | 2B       |    |   |   |   | Ι | T | M |   |   |   |
| F20 Add and subtract decimals with one tenth   | 2B       |    |   |   |   | M | R |   |   |   |   |
| F21 Compare fractions on a number line and decimals to tenths  | 2B       |    |   |   |   | T | M | R |   |   |   |
| F22 Study order of unit fractions  | 2B       |    |   |   |   | T | M | R |   |   |   |
| F23 Correlate the common fraction notation for decimals to the tenths place $(1/10 = 0.1, .1, etc.)$ | 2B       |    |   |   |   |   | M | R |   |   |   |
| F24 Add and subtract fractions with unlike denominators  | 2B       |    |   |   |   |   | I | T | M | R |   |
| F25 Add and subtract decimals to the hundredths place  | 2D       |    |   |   |   | T | M | R | R |   |   |
| F26 Multiply decimal to tenths   | 3A       |    |   |   |   |   | T | M | R |   |   |
| F27 Practice locating decimal points in products   | 2D       |    |   |   |   |   | T | M | R |   |   |
| F28 Develop concept of <i>proper</i> and <i>improper</i> fractions                                   | 2A       |    |   |   |   |   | T | M | R |   |   |
| F29 Develop concept of <i>percent</i> in multiples of five   | 2E       |    |   |   |   |   | T | M | R |   |   |
| F30 Continue addition and subtraction of fractions with like and unlike denominators                 | 3A       |    |   |   |   |   | T | M | R |   |   |
| F31 Change improper fractions to mixed number  | 2A       |    |   |   |   |   |   | T | M | R |   |
| F32 Compare fractions to fractions and decimals to decimals  | 2D       |    |   |   |   |   |   | T | M | R |   |
| F33 Addition and subtraction of decimals with hundredths and thousandths                             | 3A       |    |   |   |   |   | T | M | R |   |   |

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 19

| <u>Strand</u>   | Standard | PK | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|----------|----|---|---|---|---|---|---|---|---|---|
| F34 Multiply and divide decimals to hundredths  | 3A       |    |   |   |   |   | T | M | R |   |   |
| F35 Multiply and divide decimals by powers of 10  | 3A       |    |   |   |   |   |   | Ι | T | M |   |
| F36 Round off decimals to thousandths   | 6A       |    |   |   |   |   |   | T | M | R |   |
| F37 Use pictures and or graphic illustrations to demonstrate multiplication and division of fractions | 1A, 3D   |    |   |   |   |   |   | M | R |   |   |
| F38 Practice writing equivalent forms of common fractions and decimals 1/2 = .5                       | 2A, 2B   |    |   |   |   |   |   | T | M | R |   |
| F39 Multiplication of fractions   | 2A, 2B   |    |   |   |   |   |   | T | M |   |   |
| F40 Multiplication and mixed numbers and division of fractions  | 2A, 2B   |    |   |   |   |   |   | I | M |   |   |

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 20

| <u>Strand</u>   | Standard   | PK | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|------------|----|---|---|---|---|---|---|---|---|---|
| <b>Probability and Statistics</b>   |            |    |   |   |   |   |   |   |   |   |   |
| P1 Organize and <i>classify data</i> (e.g. color, size, and shape)                                    | 4B, 5D     | Ι  | M |   |   |   |   |   |   |   |   |
| P2 Likeness and difference concept of more, less and same   | 4B         |    | T | M | R |   |   |   |   |   |   |
| P3 Certainty and uncertainty/ guessing and estimation   | 6A, 6B     |    | T | M | R |   |   |   |   |   |   |
| P4 Collect data and record results  | 4B         |    | I | T | M | R |   |   |   |   |   |
| P5 Practice prediction  | 6C         |    | I | T | M | R |   |   |   |   |   |
| P6 Collect and tabulate data  | 4B, 4C     |    | I | T | M | R |   |   |   |   |   |
| P7 Arrange data using tables and graphs   | 4B, 4C     |    | I | T | M | R |   |   |   |   |   |
| P8 Compare data   | 4B, 5E, 7D |    | I | T | M | R |   |   |   |   |   |
| P9 Investigate beginning logic  | 1D         |    | Ι | T | M | R |   |   |   |   |   |
| P10 Collect statistical data from newspapers, magazines, polls, and activities in other content areas | 6G         |    |   |   | I | T | M | R |   |   |   |
| P11 Organize data using tables and bar graphs   | 4B, 7F     |    | I | Ι | Ι | T | M | R |   |   |   |
| P12 Discuss graphs used in everyday publications  | 4B, 7F     |    |   |   | Ι | T | M | R |   |   |   |
| P13 Conduct experiments and predict outcomes  | 6F         |    |   |   | T | M | R | R |   |   |   |

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 21

| <u>Strand</u>   | Standard   | PK | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|------------|----|---|---|---|---|---|---|---|---|---|
| P14 Use fractional notation to express probability of outcomes  | 6Н         |    |   |   | I | T | M | R |   |   |   |
| P15 Use orderly methods to count number of <i>outcomes</i> in an experiment (pictures, models, tree diagrams) | 6Н         |    |   |   | I | T | M | R |   |   |   |
| P16 Introduce logic concepts  | 1D         |    |   | Ι | T | M | R | R |   |   |   |
| P17 Make frequency tables from tallied data   | 5E, 6G     |    |   | Ι | I | T | M | R |   |   |   |
| P18 Use models, pictures and tree diagrams  | <b>6E</b>  |    |   |   |   | T | M | R |   |   |   |
| P19 Examine range and differences between smallest and largest  | <b>7</b> F |    |   |   | I | T | M | R |   |   |   |
| P20 Develop concept of average (arithmetic mean)  | <b>7</b> F |    |   |   |   |   | T | M |   |   |   |
| P21 Continue to explore methods of collecting and analyzing data  | 5D         |    |   |   |   | I | T | M | R |   |   |
| P22 Use tables, graphs and diagrams to represent collected data   | <b>5E</b>  |    |   |   |   | I | T | M | R |   |   |
| P23 Use compass and protractors to construct circle graphs  | <b>4</b> I |    |   |   |   |   |   | I | I | T | M |
| P24 Continue to investigate logic concepts  | 1 <b>D</b> |    |   |   |   | T | M | R | R |   |   |
| P25 Compare bar, line and circle graphs which represent same information                                      | <b>5E</b>  |    |   |   |   |   |   | T | M | R |   |
| P26 Determine probabilities of independent events   | <b>6E</b>  |    | · |   |   | I | T | T | M | R |   |
| P27 Make arrangements and combinations  | 6C         |    |   |   |   |   | T | T | M | R |   |

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 22

| <u>Strand</u>   | Standard   | PK | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|------------|----|---|---|---|---|---|---|---|---|---|
| Geometry and Measurement  |            |    |   |   |   |   |   |   |   |   |   |
| 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 capacity 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 decimeter 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  | <b>4</b> E | I  | T | M | R |   |   |   |   |   |   |
| G11 Measure objects using non-standard units  | 5A, 5B     |    | I | M | R |   |   |   |   |   |   |

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 23

| <u>Strand</u>   | Standard | PK | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|----------|----|---|---|---|---|---|---|---|---|---|
| G12 Weigh objects using grams, kilograms  | 5B, 5C   |    |   |   | M | R |   |   |   |   |   |
| G13 Measure time in half hours, quarter hours, and 5 minutes intervals              | 5A, 5B   |    |   | I | T | M |   |   |   |   |   |
| G14 Make change up to \$1.00  | 5C       |    |   |   | T | M | R |   |   |   |   |
| G15 Measure liquids in liters, milliliters  | 5C       |    |   |   | M | R |   |   |   |   |   |
| G16 Practice addition of measures   | 3A       |    |   |   | M | R |   |   |   |   |   |
| G17 Use shapes to create designs  | 4A       |    | I | T | M | R |   |   |   |   |   |
| G18 Observe two and three dimensional objects                                       | 7G       |    |   | I | M | R |   |   |   |   |   |
| G19 Introduce English units of measure  | 5D       |    | I | T | M | R |   |   |   |   |   |
| G20 Select and use appropriate measurement tools                                    | 5D       |    |   | I | T | M | R |   |   |   |   |
| G21 Estimate using actual units of measure  | 6B       |    |   | T | M | R |   |   |   |   |   |
| G22 Identify equivalent measures within a measuring system                          | 5B       |    |   |   | T | M | R |   |   |   |   |
| G23 Introduce coordinate geometry (positive)  | 4B       |    |   |   |   | M |   |   |   |   |   |
| G24 Relate the clock to fractions as well as circle construction                    | 5B       |    |   | I | T | M | R |   |   |   |   |
| G25 Find the perimeter of polygons  | 5D       |    |   |   | T | M | R |   |   |   |   |
| G26 Investigate properties of plane figures (number of sides, number of angles)     | 4A       |    |   |   |   | T | M | R |   |   |   |
| G27 Plane figures (polygons and circles)  | 4E       |    | I | T | T | M | R |   |   |   |   |
| G28 Explore three dimensional figures to understand <i>volume</i> (taking up space) | 4C       |    |   |   |   | T | M | R | M |   |   |
| G29 Learn how to use a compass and protractor                                       | 4E       |    |   |   |   |   | I | T | M |   |   |

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 24

| <u>Strand</u>   | Standard   | PK | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|------------|----|---|---|---|---|---|---|---|---|---|
| G30 Continue to investigate symmetry  | 4E         |    |   | I | T | M |   |   |   |   |   |
| G31 Find perimeter, area and volume of specific figures by counting units   | 4C         |    |   |   |   | T | M | R |   |   |   |
| G32 Use rulers, protractors and compasses to construct plane geometric figures (circles and squares, etc.)  | <b>4E</b>  |    |   |   |   | I | T | T |   |   |   |
| G33 Use terms such as polygon, circle, chord, radius, angle, diameter, face edge, vertex, line segment, point parallel and perpendicular and intersecting | <b>4</b> E |    |   |   |   | I | T | T |   |   |   |
| G34 Extend work in coordinate geometry to both positive and negative coordinates  | <b>2B</b>  |    |   |   |   | I | T | M |   |   |   |
| G35 Be familiar with common metric units used in everyday life  | 5A         |    |   |   |   | I | T | M |   |   |   |
| G36 Continue to study perimeter and area using graph paper and manipulative   | 5B         |    |   |   |   | Ι | T | M | R |   |   |
| G37 Develop formulas for the area and perimeter of squares and rectangles   | <b>5</b> C |    |   |   |   | I | T | M | R |   |   |
| G38 Measure area and perimeter of rectangles, triangles and irregular polygons using blocks, geoboards, graph paper etc.                                  | 5C         |    |   |   |   |   |   | T | M |   |   |
| G39 Continue to measure volume (prisms) with manipulatives  | 5B, 5C     |    |   |   |   |   |   | T | M |   |   |
| G40 Continue to measure temperature using <i>Celsius</i> and <i>Fahrenheit</i> thermometers   | 5A         |    |   |   |   |   |   | T | M |   |   |
| G41 Continue to draw and measure plane figures using rulers, protractors, and compasses   | <b>4</b> I |    |   |   |   | I | Т | M | R |   |   |
| G42 Use pictures to explore <i>similar</i> and <i>congruent</i> figures; symmetry   | <b>4</b> H |    |   |   |   | I | T | M | R |   |   |

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 25

| <u>Strand</u>   | Standard | PK | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|----------|----|---|---|---|---|---|---|---|---|---|
| <u>Problem Solving</u>  |          |    |   |   |   |   |   |   |   |   |   |
| Mathematical Reasoning  |          |    |   |   |   |   |   |   |   |   |   |
| P1 Develop number concepts through sorting and classifying                                | 1A       | I  | M | R |   |   |   |   |   |   |   |
| P2 Integrate comparison of sets and counting with other activities (real life situations) | 1A       | I  | M | R |   |   |   |   |   |   |   |
| P3 Participate in sorting and classifying   | 1A       | I  | M | R |   |   |   |   |   |   |   |
| P4 Explore likeness and differences   | 1A       | I  | M | R |   |   |   |   |   |   |   |
| P5 Begin to recognize number sequence   | 1B       | I  | M | R |   |   |   |   |   |   |   |
| P6 Relate counting to repeated patterns   | 1B       | I  | M | R |   |   |   |   |   |   |   |
| P7 Describe rationale for grouping or sequencing  | 1C       | I  | M | R |   |   |   |   |   |   |   |
| P8 Categorize objects by attributes   | 1A       |    | T | M | R |   |   |   |   |   |   |
| P9 Observe likenesses and differences using at least two categories at a time             | 1A       |    | I | T | M | R |   |   |   |   |   |
| P10 Draw pictures and use manipulatives to represent problems                             | 1A       |    | I | T | M | R |   |   |   |   |   |
| P11 Use models, facts and relationships to draw conclusions                               | 1A       |    |   |   |   |   | T | M | R |   |   |
| P12 Use statements "and" or "not"   | 1A       |    |   |   |   |   |   | I | T |   |   |
| P13 Use patterns and relationships to analyze math situations                             | 1B       |    |   |   |   |   | T | M | R |   |   |
| P14 Be able to justify answers, math checks   | 1C       |    |   |   |   | I | T | M | R |   |   |
| P15 Use logical reasoning to reach simple conclusions                                     | 1D       |    |   |   |   | Ι | T | M | R |   |   |
| P16 Apply a variety of reasoning strategies   | 1A       |    |   |   |   |   | I | T | M |   |   |
| P17 Make conclusions based on inductive reasoning   | 1C       |    |   |   |   |   |   | I | T |   |   |
| P18 Justify conclusions involving simple and compound                                     | 1D       |    |   |   |   |   |   | I | T |   |   |

- 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

The objective of the Kindergarten Math Program is to embed Math concepts through out the school day with meaningful and relevant experiences. This program should be a developmentally appropriate, multisensory approach that uses manipulatives and hands-on activities to meet the NYS Math Standards. Problem solving will be integrated through out each of the following units:

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

Key: I Introduce

T Teach

M Master

# VII. Instructional Outline

| 1.                     | *When teaching this unit the numerals will be introduced in this order:  0-5  6-10  11-19  20-31   |                               |
|------------------------|--|-------------------------------|
|                        | <ul> <li>a. One to one correspondence</li> <li>b. Identify, make and count groups (sets)</li> <li>c. Recognize and match numerals to groups of objects</li> <li>d. Written formation of numerals 0-12</li> <li>e. Ordinal numbers (First, second, etc.)</li> <li>f. Compare groups of objects (more, less, same)</li> <li>g. Rote counting by 1's and 10's to 100</li> <li>h. Begin to recognize number sequences using terms such as "before, after (I.e, 3, 4,)</li> <li>i. Introduce place value ones/tens through calendar activities</li> </ul> | M (0-10) M (0-10) T I T T T M |
|                        | j. Introduce concepts odd and even through calendar activities   | I                             |
| <ol> <li>3.</li> </ol> | <ul> <li>a. Use manipulatives to join groups of objects to 10</li> <li>b. Use manipulatives to separate groups of objects from 10</li> <li>c. Draw pictures and use manipulatives to represent problems</li> <li>d. Introduce symbols: +, -, =</li> <li>e. Write an addition/subtraction sentence and match to manipulatives</li> <li>f. Introduce role of zero in addition and subtraction</li> </ul>   | RS  T T I I T T T T           |
| 4.                     | PROBABILITY AND STATISTICS   |                               |
|                        | <ul> <li>a. Classification/Sorting</li> <li>1. Same and Different</li> <li>2. Sort by Color, shape and size</li> <li>3. Identify additional attributes of objects (i.e. Number of holes, smooth</li> <li>4. Record data using graphs, diagrams, tables</li> <li>5. Interpret graphs, tables and diagrams</li> <li>b. Patterning</li> <li>1. Identify patterns with 2 or 3 elements</li> </ul>  | th, etc.)  M M I I I          |
|                        | <ol> <li>Copy patterns with 2 or 3 elements</li> <li>Extend patterns with 2 or 3 elements</li> <li>Create own pattern using 2 or 3 elements</li> <li>Describe identical patterns- Show them in different modes</li> <li>Introduce the term and concept of estimation</li> </ol>  | M<br>T<br>T<br>T              |

#### 5. GEOMETRY AND MEASUREMENT

5.

| a. | Ge  | ometry  |      |
|----|-----|---|------|
|    | 1.  | Identify then name the 6 shapes: circle, rectangle, square, triangle, rectangle, oval, diamond        | d. T |
|    | 2.  | Identify the attributes of the 6 shapes.  | I    |
| b. | Me  | asurement   |      |
|    | 1.  | Compare objects by using linear terms (i.e. taller, wider, longer, shortest)                          | M    |
|    | 2.  | Estimate then measure objects using nonstandard units (i.e. cubes, paper clips)                       | I    |
|    | 3.  | Compare capacities of different containers with rice, sand, water, etc.                               | T    |
|    | 4.  | Estimate then measure the capacity of a container using nonstandard units (candy, cubes, balls, etc.) | J    |
|    | 5.  | Compare weights of different objects using nonstandard units (heavier, lighter, more, less, etc.)     | T    |
|    | 6.  | Estimate then measure weights of objects using nonstandard units                                      | 1    |
|    | 7.  | Introduce standard English units of measurement i.e. inches   | 1    |
| c. | Tin | ne and Money  |      |
|    | 1.  | Compare duration of time (longer, less time)  | M    |
|    | 2.  | Tell time to the hour using analog and digital clocks   | T    |
|    | 3.  | Write time to the hour  | T    |
|    | 4.  | Calendar – today, tomorrow, yesterday; days of week, months, give date                                | T    |
|    | 5.  | Sequence events   | T    |
|    | 6.  | Identify and name penny, nickel, dime   | T    |
|    | 7.  | Value of penny, nickel, dime  | T    |
|    | 8.  | Identify which item costs more/less   | T    |
| PF | ROE | BLEM SOLVING  |      |
| a. |     | sitions   |      |
|    | 1.  | Top, middle, bottom   | M    |
|    | 2.  | Above (over), below (under)   | M    |
|    | 3.  | Inside, outside   | M    |
|    | 4.  | Before, after, between (in the middle)  | M    |
|    | 5.  | Left, right   | T    |
| b. | Ma  | thematical Reasoning  |      |
|    | 1.  | Develop number concepts through sorting and classifying   | M    |
|    | 2.  | Integrate comparison of sets and counting with other activities (real life situations)                | M    |
|    | 3.  | Relate counting to repeated patterns  | M    |
|    | 4.  | Draw pictures and use manipulatives to represent problems   | ]    |

# VIII. Course Benchmarks

# IX. Units of Study

# **Unit One**

# **Numbers and Numeration**

#### A. Unit Benchmarks

#### At the end of this unit students will be able to;

- 1. Complete one to one correspondence
- 2. Identify, make and count groups (sets)
- 3. Recognize and match numerals to groups of objects
- 4. Write numerals 0-12
- 5. List ordinal numbers (First, second, etc.)
- 6. Compare groups of objects (more, less, same...)
- 7. Rote count by 1's and 10's to 100
- 8. Begin recognizing number sequences using terms such as "before, after, between" (i.e. , 3, 4, )
- 9. begin stating place value ones/tens through calendar activities
- 10. begin to understand the concepts odd and even through calendar activities

#### **B.** Unit Assessment

### C. Rubric

### **D.** Activities

### 1. Teacher Constructed Activities:

| Activity   | Benchmark | Standard | Application<br>Level |
|------------|-----------|----------|----------------------|
| a.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
| Materials: |           | CDOS:    |                      |
|            |           | SS:      |                      |
| <b>b.</b>  |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |
| c.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |
| d.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines
- 4: Apply to Real World Predictable Situations5: Apply to Real World Unpredictable Situations

### 2. Textbook with Teaching Strategies

| Activity      | Benchmark | Standard  | Application<br>Level |
|---------------|-----------|-----------|----------------------|
| a.            |           | НРЕНЕ:    |                      |
|               |           | MST:      |                      |
|               |           | ELA:      |                      |
|               |           | Arts:     |                      |
|               |           | LOTE:     |                      |
|               |           | CDOS:     |                      |
|               |           | SS:       |                      |
| Materials:    |           | - TABELLE |                      |
| b.            |           | НРЕНЕ:    |                      |
|               |           | MST:      |                      |
|               |           | ELA:      |                      |
|               |           | Arts:     |                      |
|               |           | LOTE:     |                      |
|               |           | CDOS:     |                      |
|               |           | SS:       |                      |
| Materials:    |           | НРЕНЕ:    |                      |
| <b>c.</b>     |           |           |                      |
|               |           | MST:      |                      |
|               |           | ELA:      |                      |
|               |           | Arts:     |                      |
|               |           | LOTE:     |                      |
|               |           | CDOS:     |                      |
|               |           | SS:       |                      |
| Materials: d. |           | НРЕНЕ:    |                      |
|               |           | MST:      |                      |
|               |           | ELA:      |                      |
|               |           | Arts:     |                      |
|               |           | LOTE:     |                      |
|               |           |           |                      |
|               |           | CDOS:     |                      |
| Materials:    |           | SS:       |                      |

- 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<br>Level |
|------------|-----------|---------------------------------------|----------------------|
| a.         |           | НРЕНЕ:                                | 20,01                |
|            |           | MST:                                  |                      |
|            |           | ELA:                                  |                      |
|            |           | Arts:                                 |                      |
|            |           | LOTE:                                 |                      |
|            |           | CDOS:                                 |                      |
|            |           | SS:                                   |                      |
| Materials: |           | TIDETTE                               |                      |
| b.         |           | НРЕНЕ:                                |                      |
|            |           | MST:                                  |                      |
|            |           | ELA:                                  |                      |
|            |           | Arts:                                 |                      |
|            |           | LOTE:                                 |                      |
|            |           | CDOS:                                 |                      |
|            |           | SS:                                   |                      |
| Materials: |           | , , , , , , , , , , , , , , , , , , , |                      |
| c.         |           | НРЕНЕ:                                |                      |
|            |           | MST:                                  |                      |
|            |           | ELA:                                  |                      |
|            |           | Arts:                                 |                      |
|            |           | LOTE:                                 |                      |
|            |           | CDOS:                                 |                      |
|            |           | SS:                                   |                      |
| Materials: |           | НРЕНЕ:                                |                      |
| d.         |           |                                       |                      |
|            |           | MST:                                  |                      |
|            |           | ELA:                                  |                      |
|            |           | Arts:                                 |                      |
|            |           | LOTE:                                 |                      |
|            |           | CDOS:                                 |                      |
|            |           | SS:                                   |                      |
| Materials: |           |                                       |                      |

- 1: Knowledge
- 2: Apply in Discipline
- **3: Apply Across Disciplines**
- 4: Apply to Real World Predictable Situations5: Apply to Real World Unpredictable Situations

### 4. Cross Disciplinary

| Activity   | Benchmark | Standard   | Application<br>Level |
|------------|-----------|------------|----------------------|
| a.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | INCINE     |                      |
| b.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | - TABLETTE |                      |
| c.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | НРЕНЕ:     |                      |
| d.         |           |            |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           |            |                      |

- 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<br>Level |
|---------------|-----------|----------|----------------------|
| a.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           | НРЕНЕ:   |                      |
| <b>b.</b>     |           |          |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials: c. |           | НРЕНЕ:   |                      |
| · ·           |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           |          |                      |
|               |           | CDOS:    |                      |
| Materials:    |           | SS:      |                      |
| d.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           |          |                      |

- 1: Knowledge
- 2: Apply in Discipline3: Apply Across Disciplines
- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

### E. Vocabulary

heavier than cent bottom lighter than clock below more than join after less than separate left cylinder compare inside prism add middles addition triangle above corners in all before cone subtract between pyramid subtraction sphere how many right left circle left (remain) outside triangle

outside triangle place value words (ones, tens, sort rectangle hundreds)

total equals

minus

plus

and

or

not

graph

predict

model

properties

attributes

sort rectangle resort sides as many as corners more equal most equal groups half fewer less halves least same category fair share number

category fair share estimate
sorting rule number pattern
number words zero to thirty parts point
one combinations measure
set pieces measurement
order first inch

compare last length hour longer penny shorter dime taller nickel about the same minute weight cost

\_\_\_\_

### F. References and Resources

# **Unit Two**

# Operations with Whole Numbers and Integers

### A. Unit Benchmarks

#### At the end of this unit students will be able to;

- 1. Use manipulatives to join groups of objects to 10
- 2. Use manipulatives to separate groups of objects from 10
- 3. Draw pictures and use manipulatives to represent problems
- 4. Introduce symbols: +, -, =
- 5. Write an addition/subtraction sentence and match to manipulatives
- 6. Introduce role of zero in addition and subtraction

### **B.** Unit Assessment

### C. Rubric

### **D.** Activities

### 1. Teacher Constructed Activities:

| Activity   | Benchmark | Standard | Application<br>Level |
|------------|-----------|----------|----------------------|
| a.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
| Materials: |           | CDOS:    |                      |
|            |           | SS:      |                      |
| b.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |
| c.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |
| d.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines
- 4: Apply to Real World Predictable Situations5: Apply to Real World Unpredictable Situations

### 2. Textbook with Teaching Strategies

| Activity      | Benchmark | Standard | Application<br>Level |
|---------------|-----------|----------|----------------------|
| a.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           | НРЕНЕ:   |                      |
| <b>b.</b>     |           |          |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials: c. |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           |          |                      |
| d.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           |          |                      |

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<br>Level |
|------------|-----------|----------|----------------------|
| a.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           | НРЕНЕ:   |                      |
| <b>b.</b>  |           | MST:     |                      |
|            |           |          |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Mataviala  |           | SS:      |                      |
| Materials: |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           |          |                      |
| d.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           |          |                      |

- 1: Knowledge
- 2: Apply in Discipline
- **3: Apply Across Disciplines**
- 4: Apply to Real World Predictable Situations5: Apply to Real World Unpredictable Situations

### 4. Cross Disciplinary

| Activity   | Benchmark | Standard   | Application<br>Level |
|------------|-----------|------------|----------------------|
| a.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | INCINE     |                      |
| b.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | - TABLETTE |                      |
| c.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | НРЕНЕ:     |                      |
| d.         |           |            |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           |            |                      |

- 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<br>Level |
|---------------|-----------|----------|----------------------|
| a.            |           | НРЕНЕ:   | Lever                |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           |          |                      |
| b.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           | НРЕНЕ:   |                      |
| c.            |           |          |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials: d. |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           |          |                      |
|               |           | CDOS:    |                      |
| Materials:    |           | SS:      |                      |
| munition.     | l         | 1        | l                    |

- 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

At the end of this unit students will be able to;

- 1. Distinguish between part vs. whole Half equals a "fair share"
- 2. Share sets such as cookies or crayons as objects

### **B.** Unit Assessment

### C. Rubric

### **D.** Activities

### 1. Teacher Constructed Activities:

| Activity   | Benchmark | Standard | Application<br>Level |
|------------|-----------|----------|----------------------|
| a.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
| Materials: |           | CDOS:    |                      |
|            |           | SS:      |                      |
| <b>b.</b>  |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |
| c.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |
| d.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines
- 4: Apply to Real World Predictable Situations5: Apply to Real World Unpredictable Situations

### 2. Textbook with Teaching Strategies

| Activity      | Benchmark | Standard | Application<br>Level |
|---------------|-----------|----------|----------------------|
| a.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           | НРЕНЕ:   |                      |
| <b>b.</b>     |           |          |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials: c. |           | НРЕНЕ:   |                      |
| · ·           |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           |          |                      |
|               |           | CDOS:    |                      |
| Materials:    |           | SS:      |                      |
| d.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           |          |                      |

- 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<br>Level |
|------------|-----------|----------|----------------------|
| a.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           | НРЕНЕ:   |                      |
| <b>b.</b>  |           | MST:     |                      |
|            |           |          |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |
| c.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           | LIDELIE. |                      |
| d.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Matorials  |           | SS:      |                      |
| Materials: |           |          |                      |

- 1: Knowledge
- 2: Apply in Discipline
- **3: Apply Across Disciplines**
- 4: Apply to Real World Predictable Situations5: Apply to Real World Unpredictable Situations

### 4. Cross Disciplinary

| Activity   | Benchmark | Standard   | Application<br>Level |
|------------|-----------|------------|----------------------|
| a.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | INCINE     |                      |
| b.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | - TABLETTE |                      |
| c.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | НРЕНЕ:     |                      |
| d.         |           |            |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           |            |                      |

- 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<br>Level |
|---------------|-----------|----------|----------------------|
| a.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           | НРЕНЕ:   |                      |
| <b>b.</b>     |           |          |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials: c. |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           |          |                      |
|               |           | CDOS:    |                      |
| Materials:    |           | SS:      |                      |
| d.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           |          |                      |

- 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**

# **Probability and Statistics**

### A. Unit Benchmarks

#### At the end of this unit students will be able to;

- 1. Classify/Sort
  - Same and Different
  - Sort by Color, shape and size
  - Identify additional attributes of objects (i.e. Number of holes, smooth, etc.)
  - Record data using graphs, diagrams, tables
  - Interpret graphs, tables and diagrams
- 2. Pattern
  - Identify patterns with 2 or 3 elements
  - Copy patterns with 2 or 3 elements
  - Extend patterns with 2 or 3 elements
  - Create own pattern using 2 or 3 elements
  - Describe identical patterns- Show them in different modes
- 3. begin understanding the term and concept of estimation

### **B.** Unit Assessment

### C. Rubric

### **D.** Activities

#### 1. Teacher Constructed Activities:

| Activity   | Benchmark | Standard      | Application<br>Level |
|------------|-----------|---------------|----------------------|
| a.         |           | НРЕНЕ:        |                      |
|            |           | MST:          |                      |
|            |           | ELA:          |                      |
|            |           | Arts:         |                      |
|            |           | LOTE:         |                      |
| Materials: |           | CDOS:         |                      |
|            |           | SS:           |                      |
| <b>b.</b>  |           | НРЕНЕ:        |                      |
|            |           | MST:          |                      |
|            |           | ELA:          |                      |
|            |           | Arts:         |                      |
|            |           | LOTE:         |                      |
|            |           | CDOS:         |                      |
| Materials: |           | SS:           |                      |
| c.         |           | НРЕНЕ:        |                      |
|            |           | MST:          |                      |
|            |           | ELA:          |                      |
|            |           | Arts:         |                      |
|            |           | LOTE:         |                      |
|            |           | CDOS:         |                      |
| Materials: |           | SS:<br>HPEHE: |                      |
| d.         |           | НРЕНЕ:        |                      |
|            |           | MST:          |                      |
|            |           | ELA:          |                      |
|            |           | Arts:         |                      |
|            |           | LOTE:         |                      |
|            |           | CDOS:         |                      |
| Materials: |           | 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<br>Level |
|------------|-----------|----------|----------------------|
| a.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           | INCINE   |                      |
| b.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           |          |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |
| d.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           |          |                      |

- 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<br>Level |
|------------|-----------|----------|----------------------|
| a.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           | НРЕНЕ:   |                      |
| <b>b.</b>  |           | MST:     |                      |
|            |           |          |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |
| c.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           | НРЕНЕ:   |                      |
| d.         |           | MST:     |                      |
|            |           |          |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines
- 4: Apply to Real World Predictable Situations5: Apply to Real World Unpredictable Situations

### 4. Cross Disciplinary

| Activity   | Benchmark | Standard | Application<br>Level |
|------------|-----------|----------|----------------------|
| a.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           |          |                      |
| b.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           |          |                      |
| с.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           | НРЕНЕ:   |                      |
| d.         |           |          |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           |          |                      |

- 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<br>Level |
|---------------|-----------|----------|----------------------|
| a.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials: b. |           | НРЕНЕ:   |                      |
| 0.            |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           |          |                      |
| Materials:    |           | SS:      |                      |
| c.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials: d. |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           |          |                      |

- 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**

# **Geometry and Measurement**

#### A. Unit Benchmarks

#### At the end of this unit students will be able to;

- 1. Geometry
  - Identify then name the 6 shapes: circle, rectangle, square, triangle, rectangle, oval, diamond.
  - Identify the attributes of the 6 shapes.
- 2. Measurement
  - Compare objects by using linear terms (i.e. taller, wider, longer, shortest...)
  - Estimate then measure objects using nonstandard units (i.e. cubes, paper clips)
  - Compare capacities of different containers with rice, sand, water, etc.
  - Estimate then measure the capacity of a container using nonstandard units (candy, cubes, balls, etc.)
  - Compare weights of different objects using nonstandard units (heavier, Lighter, more, less, etc.)
  - Estimate then measure weights of objects using nonstandard units
  - Use standard English units of measurement i.e. inches
- 3. Time and Money
  - Compare duration of time (longer, less time)
  - Tell time to the hour using analog and digital clocks
  - Write time
  - Calendar today, tomorrow, yesterday; days of week, months, give date
  - Sequence events
  - Identify and name penny, nickel, dime
  - Identify the value of penny, nickel, dime
  - Identify which item costs more/less

## **B.** Unit Assessment

# C. Rubric

## **D.** Activities

#### 1. Teacher Constructed Activities:

| Activity   | Benchmark | Standard | Application<br>Level |
|------------|-----------|----------|----------------------|
| a.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
| Materials: |           | CDOS:    |                      |
|            |           | SS:      |                      |
| b.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |
| c.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |
| d.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines
- 4: Apply to Real World Predictable Situations5: Apply to Real World Unpredictable Situations

## 2. Textbook with Teaching Strategies

| Activity      | Benchmark | Standard   | Application<br>Level |
|---------------|-----------|------------|----------------------|
| a.            |           | НРЕНЕ:     |                      |
|               |           | MST:       |                      |
|               |           | ELA:       |                      |
|               |           | Arts:      |                      |
|               |           | LOTE:      |                      |
|               |           | CDOS:      |                      |
|               |           | SS:        |                      |
| Materials:    |           | - TABLETTE |                      |
| b.            |           | НРЕНЕ:     |                      |
|               |           | MST:       |                      |
|               |           | ELA:       |                      |
|               |           | Arts:      |                      |
|               |           | LOTE:      |                      |
|               |           | CDOS:      |                      |
|               |           | SS:        |                      |
| Materials:    |           | НРЕНЕ:     |                      |
| c.            |           | MST:       |                      |
|               |           |            |                      |
|               |           | ELA:       |                      |
|               |           | Arts:      |                      |
|               |           | LOTE:      |                      |
|               |           | CDOS:      |                      |
| 16            |           | SS:        |                      |
| Materials: d. |           | НРЕНЕ:     |                      |
|               |           | MST:       |                      |
|               |           | ELA:       |                      |
|               |           | Arts:      |                      |
|               |           | LOTE:      |                      |
|               |           |            |                      |
|               |           | CDOS:      |                      |
| Materials:    |           | SS:        |                      |

- 1: Knowledge
- 2: Apply in Discipline3: 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<br>Level |
|------------|-----------|----------|----------------------|
| a.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           | НРЕНЕ:   |                      |
| <b>b.</b>  |           | MST:     |                      |
|            |           |          |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |
| c.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
|            |           | SS:      |                      |
| Materials: |           | LIDELIE. |                      |
| d.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Matorials  |           | SS:      |                      |
| Materials: |           |          |                      |

- 1: Knowledge
- 2: Apply in Discipline3: Apply Across Disciplines
- 4: Apply to Real World Predictable Situations5: Apply to Real World Unpredictable Situations

## 4. Cross Disciplinary

| Activity   | Benchmark | Standard   | Application<br>Level |
|------------|-----------|------------|----------------------|
| a.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | INCINE     |                      |
| b.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | - TABLETTE |                      |
| c.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | НРЕНЕ:     |                      |
| d.         |           |            |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           |            |                      |

- 1: Knowledge
- 2: Apply in Discipline3: Apply Across Disciplines
- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

#### 5. Miscellaneous

| Activity      | Benchmark | Standard | Application<br>Level |
|---------------|-----------|----------|----------------------|
| a.            |           | НРЕНЕ:   | Lever                |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           |          |                      |
| b.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           | НРЕНЕ:   |                      |
| c.            |           |          |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials: d. |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           |          |                      |
|               |           | CDOS:    |                      |
| Materials:    |           | SS:      |                      |
| munition.     | l         | 1        | l                    |

- 1: Knowledge
- 2: Apply in Discipline3: 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**

## A. Unit Benchmarks

#### At the end of this unit students will be able to;

- 1. Identify the following positions
  - Top, middle, bottom
  - Above (over), below (under)
  - Inside, outside
  - Before, after, between (in the middle)
  - Left, right
- 2. Complete the following mathematical Reasoning
  - Develop number concepts through sorting and classifying
  - Integrate comparison of sets and counting with other activities (real life
  - Situations)
  - Relate counting to repeated patterns
  - Draw pictures and use manipulatives to represent problems

## **B.** Unit Assessment

# C. Rubric

## **D.** Activities

#### 1. Teacher Constructed Activities:

| Activity   | Benchmark | Standard | Application<br>Level |
|------------|-----------|----------|----------------------|
| a.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
| Materials: |           | CDOS:    |                      |
|            |           | SS:      |                      |
| <b>b.</b>  |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |
| c.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |
| d.         |           | НРЕНЕ:   |                      |
|            |           | MST:     |                      |
|            |           | ELA:     |                      |
|            |           | Arts:    |                      |
|            |           | LOTE:    |                      |
|            |           | CDOS:    |                      |
| Materials: |           | SS:      |                      |

- 1: Knowledge
- 2: Apply in Discipline
- 3: Apply Across Disciplines
- 4: Apply to Real World Predictable Situations5: Apply to Real World Unpredictable Situations

## 2. Textbook with Teaching Strategies

| Activity      | Benchmark | Standard | Application<br>Level |
|---------------|-----------|----------|----------------------|
| a.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           | НРЕНЕ:   |                      |
| <b>b.</b>     |           |          |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials: c. |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           |          |                      |
|               |           | CDOS:    |                      |
| Materials:    |           | SS:      |                      |
| d.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           |          |                      |

- 1: Knowledge
- 2: Apply in Discipline3: 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<br>Level |
|---------------|-----------|----------|----------------------|
| a.            |           | НРЕНЕ:   | 20,01                |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           | НРЕНЕ:   |                      |
| b.            |           |          |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           | INDEXE   |                      |
| c.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials: d. |           | НРЕНЕ:   |                      |
| u.            |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           |          |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
| Materials:    |           | SS:      |                      |
| materials:    |           |          |                      |

- 1: Knowledge
- 2: Apply in Discipline
- **3: Apply Across Disciplines**
- 4: Apply to Real World Predictable Situations5: Apply to Real World Unpredictable Situations

## 4. Cross Disciplinary

| Activity   | Benchmark | Standard   | Application<br>Level |
|------------|-----------|------------|----------------------|
| a.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | INCINE     |                      |
| b.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | - TABLETTE |                      |
| c.         |           | НРЕНЕ:     |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           | НРЕНЕ:     |                      |
| d.         |           |            |                      |
|            |           | MST:       |                      |
|            |           | ELA:       |                      |
|            |           | Arts:      |                      |
|            |           | LOTE:      |                      |
|            |           | CDOS:      |                      |
|            |           | SS:        |                      |
| Materials: |           |            |                      |

- 1: Knowledge
- 2: Apply in Discipline3: Apply Across Disciplines
- 4: Apply to Real World Predictable Situations
- 5: Apply to Real World Unpredictable Situations

#### 5. Miscellaneous

| Activity      | Benchmark | Standard | Application<br>Level |
|---------------|-----------|----------|----------------------|
| a.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           | НРЕНЕ:   |                      |
| <b>b.</b>     |           |          |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials: c. |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           |          |                      |
|               |           | CDOS:    |                      |
| Materials:    |           | SS:      |                      |
| d.            |           | НРЕНЕ:   |                      |
|               |           | MST:     |                      |
|               |           | ELA:     |                      |
|               |           | Arts:    |                      |
|               |           | LOTE:    |                      |
|               |           | CDOS:    |                      |
|               |           | SS:      |                      |
| Materials:    |           |          |                      |

- 1: Knowledge
- 2: Apply in Discipline3: 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**