Grade 2 Mathematics	Unit 12 – Multiplication and Fractions
Mathematics	onit 15 - Multiplication and Fractions
Big	Unit 13 addresses a variety of mathematical concepts that allow children to
Idea/Rationale:	explore multiplication and fractions. Children solve multiplication
	problems first with repeated addition and familiar count-bys, then with
	arrays, and finally with the standard multiplication equation. Children
	expand their understanding of comparison language by applying terms
	such as nall, double, twice, and equal shares. They explore shares, the concent of division symmetry fractions and basic probability concents
Enduring	• Multiplication is an essential skill that provides a quicker way of adding
Understandings:	resulting in the ability to function efficiently in everyday life and solve
	real problems.
	 Fractions represent parts of a whole.
	• Both the number of parts, and the fact that they are equal parts, constitute
	the concept of a fraction.
	• Many shapes that exist in the world can be divided to create two or more identical shapes. These shapes have identifiable lines of summetry.
	• The likelihood of an event depends on the possible outcomes
Essential	How can skin counting help you add?
Questions:	• Can you think of two different ways to solve this problem: "I have 5 plates
	with 3 pieces of candy on each? How many pieces of candy are there in all?
	 How are the numerator and denominator related?
	 What does "equal parts" mean?
	 How do you identify equal and unequal parts?
	• If I share my pizza with 4 people, what fraction of the pizza am I eating?
	• How you could decide what fraction of a shape is named?
	• Names some shapes that are symmetrical?
	Do all shapes have a line of symmetry? Draw a line of symmetry for a given shape?
	• How do you know if an event is more likely equally likely or less likely to
	happen?
	• How can possible outcomes of an event be determined?
Lesson Objectives:	• Recognize that multiplication is counting by a number.
	 Relate repeated addition and multiplication.
	 Solve multiplication problems
	• Count by 2's.
	• Recognize that multiplication is counting by a number.
	• Count by 3's.
	 Recognize that multiplication is counting by a number. Count by A's
	 Count by 4 S. Recognize that multiplication is counting by a number
	• Count by 5's.

	• Use the array model for multiplication
	• Use the array model for multiplication.
	• Use count-bys and arrays to solve multiplication problems.
	• Use the comparative terms half, double, twice, and equal shares appropriately
	Read information in a graph
	• Understand the meaning of division as equal shares and as repeated
	subtraction.
	• Use models to solve simple division problems.
	 Find lines of symmetry.
	 Recognize and draw symmetrical shapes.
	 Find symmetry in everyday objects.
	• Identify and represent one half, one third, one fourth, two thirds, and three fourths in geometrical shapes
	• Understand what numerator and denominator signify
	Compare fractions using fraction strips
	• Write monoy amounts as fractions
	Write money amounts as mactions. Describe events as possible, or cortain
	Describe events as possible, of certain. Discuss whother a game is fair or unfair.
	 Discuss whether a game is fail of unial. Predict the results of a probability experiment and then do the
	experiment to check the prediction
	 Identify all possible outcomes for a probability experiment and decide
	which is most likely and least likely to happen. Then do the experiment to
	check the predictions.
	 Use numbers to describe the probability of an event.
	 Find all the possible combinations for a given situation.
	 Solve a variety of problems using mathematical concepts and skills.
	 Use mathematical processes in the context of problem solving,
	connections, reasoning and proof, communication, and representation.
Common Core	2.0A.C.4 : Use addition to find the total number of objects arranged in
State Standards:	rectangular arrays with up to 5 rows and up to 5 columns: write an
	equation to express the total as a sum of equal addends.
	2.NB1.A.2: Count within 1000; skip-count by 5s, 10s, and 100s.
	2.G.A.1: Recognize and draw snapes naving specified attributes, such as a given number of equal faces. Identify triangles
	given number of angles of a given number of equal faces. Tuentity intangles,
	2 C A 3. Partition circles and rectangles into two three or four equal
	shares describe the shares using the words halves thirds half of a third of
	etc and describe the whole as two halves three thirds four fourths
	Recognize that equal shares of identical wholes need not have the same
	shane.
	Mathematical Practices
Materials and	Grade 2 Math Expressions, Math Journals, manipulatives, IXL Mathematics
Resources :	