Math Grade 3 Unit 1 Curriculum Unit Planning Template Canterbury Public Schools

Subject	Math
Grade Level	3
Unit Title	Introducing Multiplication
Unit Goals	Students will represent and solve multiplication problems through the context of picture and bar graphs that represent categorical data. Section A Interpret scaled picture and bar graphs Represent data using scaled picture and bar graphs Solve one and two step story problems using addition and subtraction Section B REpresent and solve multiplication problems involving equal groups Understand multiplication in terms of equal groups. Section C Represent Multiplication with Arrays and the Commutative Property Represent and solve multiplication problems involving arrays
Pacing (# of weeks)	3 - 4 weeks
Standards	3.MD.B,3.MD.B.3 3. OA.A,3.OA.A.1, 3.OA.3., 3.OA.A.4, 3.OAD.10 3.MD.B, 3.OAA, 3.OA.A.1, 3.OA.B.5,3.OA.C.7, 3.OA.D.9
Content/Conceptual Knowledge (know)	That multiplication can mean finding the total number of objects in groups of 2 objects and can be represented by a x b. The idea that one picture can represent multiple objects helps to introduce the idea of equal sized groups Number of groups x the size of each group Explain what each number in their expression represents The Commutative Property of multiplication
Skills (be able to do)	Create arrays, use connecting cubes or counters to represent and solve problems Interpret and draw picture graphs to represent data, building on their experience with data representation and with skip-counting by 2.5 and 10 in grade 2

	Solve one and two step how many more and how many fewer problems within 100 Make sense of multiplication in terms of equal groups of objects Use discrete drawings and tape diagrams that show equal groups to represent multiplication and then relate these representations to expressions such a 3×2 , interpreting them to mean 3 groups of 2 or 2 groups of 3
Essential Questions	How can we represent information in a formal manner? Can you say 3 x 4 is the same as 4 x 3? How can we explain representations of items in equal groups? What is an array and what does it tell? Can a bar graph tell a story?
Enduring Understandings	Using pictures /graphs can show information in an organized fashion. Rows and columns of an array represent equal groups The number of rows or columns, the number of items in each row or column, and the total number of objects in an array can be represented with a multiplication equation
Vocabulary	Equal groups Groups of Array Equation Commutative property
Common Learning Experiences broken down by standard addressed in the unit	Lesson 3 Activity 1 So Many Responses Lesson 10 Activity 2 Card Sort: Equal Groups Lesson 20 Activity 1, Learn More About Multiplication
Assessments	Classwork, participation, end of unit tests, checkpoints, daily cool downs
Student Resources	Sticky notes, connecting cubes, Card Sort- various, counters, place value mats, connecting blocks
Teacher Resources	Models of arrays