Unit 4 (11-14 Days) **ADDING & SUBTRACTING FRACTIONS**		**Concept 1 (3 Days)** **Adding Fractions with Models**	**Concept 2 (3 Days)** **Subtracting Fractions with Models**	**Concept 3 (1 Day)** **Adding and Subtracting Fractions without Models**
Bloom's Levels	**TEKS**	**7.2B** The student adds, subtracts, multiplies, or divides to solve problems and justify solutions. The student is expected to: (B) use addition, subtraction, multiplication, and division to solve problems involving fractions and decimals.	**7.2B**	**7.2B**
	TAKS	1	1	1
Concept 1: **Knowledge** Name fractions equivalent to $\frac{1}{4}$ **Comprehension** Explain how to shorten a train. **Application** Can you use pictures or words to show writing a train with only one fraction? **Analysis** What other ways could you simplify the train?	**Guiding Questions for Teachers**	**Do the students know:** -How to write mathematical sentences to record fraction trains and then shortens the sentences by combining fractions with like denominators? -How to build a train and then represent it with only one fraction? (use equivalent fractions) Ex. $\frac{1}{8}+\frac{1}{8}+\frac{1}{2}=\frac{3}{4}=\frac{6}{8}=\frac{12}{16}$ -How to build a train that is longer than one whole and represent it with only one fraction? (Record with improper and mixed fraction) Ex. $\frac{1}{2}+\frac{1}{2}+\frac{1}{8}+\frac{1}{8}+\frac{1}{8}=\frac{11}{8}=1\frac{3}{8}$ - How to convert improper fractions to mixed numbers? -How to build a train, determine how much more to add on to make one whole, then represent it with only one fraction? Ex. $\frac{1}{2}+\frac{1}{16}+?=1$	**Do the students know:** -Use circle sectors to model whole – part = part -Use egg carton method to model whole – part = part	**Do the students know:** - How to find a common denominator? - How to make equivalent fractions using the common denominator? - That when common denominators are present, they add the numerator and keep the denominator the same? - How to use a common factor to simplify their solution? - How to convert improper fractions to mixed numbers? - That if the solution contains a whole number with an improper fraction, they need to convert the improper fraction to a mixed number and add it to the whole number?