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| Name: math fractionsUnit Title: adding and subtracting fractions with unlike denominators using equivalent fractionsDate: 2/7/14 |
| **Goal(s):****5.nf.1****5.nf.2** |
| **Essential Understandings:**• Equivalent fractions are essential when adding and subtracting fractions with unlike denominatorsUse knowledge of fractions and equivalence of fractions to develop algorithms for adding and subtracting  | **Essential Questions:****•** What do equivalent fractions represent and why are they useful when solving equations with fractions**?**How do you add and subtract fractions with unlike denominators?  |
| Students will know: what an algorithm is  what equivalent fractions represent   | Students will be able to:• add and subtract fractions with unlike denominators• compute equivalent fractions  |

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| STAGE 2 – EVIDENCE |
| **Key Evidence (Performance Based):** **Explain how to use the algorithm:** **a/b + or – c/d** **a/b X d/d = equivalent fraction****c/d X b/b = equivalent fraction****+ or – new equivalent fractions**  **See attached picture for drawing and student notes**  **http://www.screenchomp.com/t/u9oATKTt1** | **Other Evidence (Formative):**Chapter test or lesson worksheet  |

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| STAGE 3 – ACTION PLAN |
| 1. **Review key concepts, vocab words, and background knowledge such as: numerators, denominators, equivalent fractions, and the need to have like denominators before manipulating fractions.**
2. **Model the algorithm (view video) to show students the process to add or subtract fractions with unlike denominators.**
3. **Have student illustrate this process on their own.**
4. **Show students how to use this algorithm with numbers.**
5. **Students would apply the concept in the videocusing actual problems.**
6. **Have student apply this knowledge through worksheet and/or chapter test.**
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