Breaking Down a Mathematics Standard *Note: Grade 4 expectations in this domain KAS: KY, 4.NF. are limited to tractions w/ denominators 2,3,4,5,6,8,10,12,100	
What is the domain/conceptual category/big idea? Numbers . Operations - Fractions	
Standards for Mathematical Practice	
MP.1. Make sense of problems and persevere in solving them. MP.2. Reason abstractly and quantitatively. MP.3. Construct viable arguments and critique the reasoning of others. MP.4. Model with mathematics.  Cluster: What is the broader understanding that the standard plays a result of the standard plays and the standard plays are standard pl	MP.5. Use appropriate tools strategically. MP.6. Attend to precision. MP.7. Look for and make use of structure. MP.8. Look for and express regularity in repeated reasoning.  Tole in building? Extend unerstanding of fraction equivalence.
Standards	Clarifications
Identify the target of the standard:  conceptual understanding o procedural skill/fluency o application  Consider how the target of the standard will have an impact on instruction and assessment. (For more information, refer to p. 7, 10 and 15 of KAS for Mathematics.) Students should be able to make serse of why a mathematical idea is important and the kinds of contexts in which its useful. Students are also able to connect prior knowledge to new ideas ? concepts.  What key mathematics should students know and be able to do?  equivalent fractions	<ul> <li>What are the specific representations/strategies that will need to be considered when planning instruction?</li> <li>Students draw visual fraction models to subdivide the pieces into smaller equal Sized pieces.</li> <li>What are the possible misconceptions that will need to be addressed during instruction? If students are taught a trick like the butterfly method they will not understand the why it how equivalent fractions work.</li> <li>Coherence: Previous Grade → Current Standard → Upcoming Grade</li> <li>How does this standard build off of prior learning? Grade 3 KY.3.NE.3 equivalent fractions</li> <li>How does this standard support future learning? Grade 5 KY.5.NE. I adding Subtracting fractions would be denominators.</li> <li>How does this standard connect to other standards for even other</li> </ul>
clusters or domains)? Same cluster: KY. 4.NF.2 Compare fractions. Connect to KY. 4.NF.2 connect to KY.	
.MP.8 Look for, repeated reasoning, students are able to show the relationship between the numerator and denominator.	