

<b>Lesson Plan</b>	
<b>Lesson Title:</b> Quilting <b>Subject:</b> Mathematics <b>Grade Level:</b> Cycle 2, Grade 4 <b>Date:</b> March 16 <sup>th</sup> 2016 <b>Duration:</b> 45 minutes	
<b>Objectives</b>	By the end of this lesson students will: <ul style="list-style-type: none"> <li>• Review their understanding of fractions</li> <li>• Review their understanding of converting fractions into decimals</li> <li>• Review their understanding of converting fractions and/or decimals into percentages</li> </ul>
<b>Group Size &amp; Materials</b>	<ul style="list-style-type: none"> <li>• Whole class</li> <li>• SMART Board + pens for it</li> <li>• PowerPoint</li> <li>• Worksheet (attached below)</li> <li>• Pencil crayons + pencils</li> </ul>
<b>Competencies</b>	<ul style="list-style-type: none"> <li>• <i>Competency 2:</i> To reason using mathematical concepts and processes</li> <li>• <i>Competency 3:</i> To communicate by using mathematical language</li> </ul>
<b>Differentiation</b>	<ul style="list-style-type: none"> <li>• Students who finish early will be provided with a “Colour by Fraction – Equivalent Fractions” worksheet to work on.</li> <li>• Students who require assistance will be encouraged to use fewer colours, and choose a simpler image to make.</li> <li>• The quilt size is 10 x 10, assisting students.</li> </ul>
<b>Assessment</b>	<ul style="list-style-type: none"> <li>• The assessment criteria is provided on the worksheet, and will be discussed with the class.</li> </ul>
<b>Stage</b>	<b>Lesson</b>
<b>Introduction</b> <i>(5 minutes)</i>	<ul style="list-style-type: none"> <li>• Show students pictures of quilts and ask what they notice about them. Answers should include the use of colour, straight lines, etc.</li> <li>• If it did not previously come up, introduce the students to the idea that quilts use math through fractions, decimals and percentages.</li> </ul>
<b>Development</b> <i>(5 minutes)</i>	<ul style="list-style-type: none"> <li>• Review the concept of converting fractions to decimals and percentages with the students. Provide examples on the board and work through the conversions with the students, asking them how to convert.</li> </ul>
<b>Activity</b> <i>(20 - 25 minutes)</i>	<ul style="list-style-type: none"> <li>• Discuss the worksheet with the students. Explain they will create their own quilt on the grid by drawing an image and colouring it using 3-5 colours.</li> <li>• They will be reminded to use straight lines to turn the squares into halves, but to not use rounded edges.</li> <li>• As a class we will work through the first row of the chart on the second page of my example to show the students how to use the chart.</li> <li>• Discuss the evaluation criteria.</li> </ul>