

<p>Date: day 2 of unit plan number sense</p> <p>Lesson: composition and decomposition of whole numbers</p> <p>Resource(s) this is adapted from:</p>	<p>Time (Duration):1 hour</p> <p>Grade(s):4</p>
<p><b>Learning Goal:</b> We are learning.... How to compose and decompose whole numbers</p> <p><b>Success Criteria</b> (at least one for each Know, Do, Be):</p> <p>I can read and represent whole numbers up to 10 000</p> <p>I can compose multiple whole numbers up to 10 000</p> <p>I can decompose multiple whole numbers up to 10 000</p>	
<p>Curriculum Expectations:</p> <p><b>B1.1 Whole Numbers</b></p> <p>read, represent, compose, and decompose whole numbers up to and including 10 000, using appropriate tools and strategies, and describe various ways they are used in everyday life</p> <p>Vocabulary: compose, decompose, whole number, represent, greater</p> <p>Teaching Resources: <a href="https://youtu.be/lhSKQElr7_4">https://youtu.be/lhSKQElr7_4</a></p> <p>Composition and decomposition video</p>	<div><input checked="" type="checkbox"/> Opportunities for Assessment AS Learning</div> <div><input checked="" type="checkbox"/> Opportunities Assessment FOR Learning</div> <div><ul style="list-style-type: none"><li>- observation during whole class learning</li><li>- Exit ticket</li><li>- Exit ticket take up with the class</li></ul></div>
<p>Groupings/Classroom Setup:</p> <p>Table groups of 4-5, smart board at front</p> <p>Learning Materials:</p> <ul style="list-style-type: none"><li>• Projector</li><li>• White board</li><li>• Base 10 blocks</li><li>• Exit ticket and writing utensils</li></ul>	
<p>Universal Design for Learning Strategies</p> <p><i>(Use the chart I provided for examples)</i></p> <p>Multiple means of Engagement</p> <ul style="list-style-type: none"><li>• Funny video on composition/decomposition</li><li>• Tactile experimentation with base 10 blocks</li></ul> <p>Multiple Means of Representation</p> <ul style="list-style-type: none"><li>• Online base 10 block simulator offered as well on iPads or chrome books</li><li>• <a href="https://www.coolmath4kids.com/manipulatives/base-ten-blocks">https://www.coolmath4kids.com/manipulatives/base-ten-blocks</a></li><li>• Video includes subtitles</li></ul> <p>Multiple Means of Action &amp; Expression</p> <ul style="list-style-type: none"><li>• Students can choose to either complete the exit ticket by hand written or on a document online</li><li>• Only students who volunteer will go to the board – no random selections</li></ul>	<p>Differentiation Strategies:</p> <p><i>(Check off the ones you’re including</i> <i>(We can differentiate Content, Process, Products, and Environment)</i></p> <div><input checked="" type="checkbox"/> Open and Parallel Tasks</div> <div><input type="checkbox"/> Graphic Organizers</div> <div><input checked="" type="checkbox"/> Auditory Cues</div> <div><input checked="" type="checkbox"/> Visual Cues</div> <div><input type="checkbox"/> Incorporate Movement</div> <div><input checked="" type="checkbox"/> Vary Groupings</div> <div><input checked="" type="checkbox"/> Vary Materials</div> <div><input checked="" type="checkbox"/> Provide Choice</div> <div><input checked="" type="checkbox"/> Extra Practice</div> <div><input type="checkbox"/> Extra Time</div>

<p>LESSON:</p> <p>Activate/Minds On (15 Minutes)</p> <p>Students begin the lesson by watching the video on decomposition and composition of whole numbers. We will have a brief discussion on the concept of decomposition and composition of whole numbers and where we might need to use this concept in our everyday lives. Base 10 blocks are distributed for students to experiment with.</p> <p>Working on it (35 Minutes):</p> <p>A short lesson on how to compose and decompose with the blocks are given. Whole class works on 3 composition and 3 decomposition problems on the board together to familiarize themselves with the method of using base 10 blocks to compose and decompose. Problems range from 3 digit whole numbers to 5 digit whole numbers. Students are given time to ask questions on the concept before exit tickets are handed out for students to complete.</p> <p>Consolidation/Debrief (10 Minutes):</p> <p>After making sure every student has completed the exit ticket (or gave it their best attempt) student volunteers will be selected to demonstrate how they got the answers with base 10 blocks in front of the class. We will as a class take up the work to see what the correct answers are and answer any remaining questions.</p>	



