

DAILY LESSON PLAN

Math GRADE:4

(NO.2/6)

INTERNATIONAL DAILY LESSON PLAN

Unit 2: Factors and Multiples.

Date: _____

Topic: Divisibility, Divisibility by 5, Divisibility by 10

Year Level: 4

Key Learning Area: Divisibility rules, Divisibility by 5 & 10.

Outcomes: Students will be able to define divisibility.

Students will be able to define and apply divisibility rule.

Students will be able to identify and solve the sums by the rules of divisibility.

Lesson Structure:

Time	Introduction (Set):	Teaching Approaches
	<p>The beginning of your lesson is extremely important.</p> <p>You set the tone of your lesson and get everyone in the right frame of mind for not only learning but as</p>	<p>Print out divisibility rules and paste it in front of your class. Help your students to understand the rules by</p>

<p>10 min.</p>	<p>well as understanding the concepts and basics of the topic.</p> <p>Define Divisibility:</p> <p>When a number is divisible it means that:</p> <p>“We can split it into equal groups without any remainder, or leftovers.”</p> <p>For instance, if you and a friend want to share 4 cookies equally, each of you would get 2 cookies:</p> <p><i>4 cookies / 2 people = 2 cookies per person.</i></p> <p>As there are no remainders, or leftovers, this means that 4 is divisible by 2.</p> <p>Now imagine that 2 more friends came to join you, and the 4 of you want to share the 4 cookies.</p> <p><i>4 cookies / 4 people = 1 cookie per person.</i></p> <p>Again, as there's no remainder, we could also say that 4 is divisible by 4.</p> <p>Once the students get comfortable with the divisibility idea and examples. Introduce the divisibility rules for 5 and 10.</p>	<p>giving examples for each rule.</p> <p>Divisibility Rules</p> <p>I'm 2 and I'll be your friend, as long as an even #'s on the end. 2 will work for me, you see, if the sum is divisible by 3. The 3 won't be such a chore, if the last 2 are divisible by 4. The 5 is my biggest hero, he has to end in 5 or 0. The 6 will always go into me, as long as so does 2 and 3. 7 will go into me just fine, if the sum is divisible by 9. I'm 8 and this you should know, I always end in a big fat 0!</p> <p>Warm-up Activity:</p> <ul style="list-style-type: none"> • Write a large number on the board (e.g., 4599, 8040, 25,700) and ask students, "Is this number divisible by 5 or 10?" • Take a quick poll or ask for students to respond with thumbs up or down. • Leave the number written on the board to revisit at the end of the lesson. <p>Displaying divisible chart for 5 and 10:</p> <ul style="list-style-type: none"> • Paste a chart in front of your class where they can see all the numbers that are divisible by 5 and 10. Color the both number sequences with different shade. This can give them an over all view about the numbers
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		that are divisible by 5 and 10.
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LESSON STRUCTURE:

Time	Main Content:	Teaching Approaches
25 min.	<p>The Divisibility Rule for 5:</p> <p>It is a shortcut for figuring out if a number is divisible by 5 without having to actually solve the division problem.</p> <p>“The rule says that if a number ends in 0 and 5, we can divide it by 5. In other words, we can make equal groups without a remainder.”</p> <p>The Divisibility Rule for 10:</p> <p>In order to apply the divisibility rules for 10, the digit at ones place must be zero. This works whether the number is 70, 700 or 7000 etc. this rule also works if the numbers do not have 0 as a middle digit such as 210, 340, and 620. All of them are divisible by 10.</p> <p>Worksheets:</p>	<p>Activity 1:</p> <p>Handover Some printed worksheet where students need to mark the number Divisible by the required number.</p> <p>Place Value Chart:</p> <p>Draw a place value chart on the board and write down the required number in it. Then elaborate the rules by place value as:</p> <ul style="list-style-type: none"> • <i>Divisible by 5:</i> As the digit at the ones place is 0 so, the number is divisible by 5. 5460 Yes 129 No • <i>Divisible by 10:</i> As the ones digit is zero. So, the number is easily divisible by 10. (45,670) Yes (23,233) No <p>Activity 2:</p>

<p>Handover some printed worksheets where students need to apply the divisibility rule in real life situations.</p> <p>Once the students get the concept ask them to solve the pages numbers 46-47 of incredible Mathematics of grade 4.</p>	<p>Give your students printed worksheets based on such examples or draw it on the board ask studentst to identify the required digit.</p> <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>4-digit number</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>9</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>1234</td> <td>Yes</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> </tr> </tbody> </table> <p>Activity 3:</p> <p>Give flash cards of different numbers to students and ask them to show cards with numbers divisible by 2, 3, 5 and 10.</p>	4-digit number	2	3	4	5	6	9	10	1234	Yes	No	No	No	No	No	No
4-digit number	2	3	4	5	6	9	10										
1234	Yes	No	No	No	No	No	No										

Time	Conclusion:	Teaching Approaches
5 min.	<p>Students will be able to:</p> <p>Define divisibility.</p> <p>Define and apply divisibility rule.</p> <p>Identify and solve the sums by the rules of divisibility.</p> <p>Apply the divisibility rules of 5 and 10 in any real life situations.</p>	<p>Students are asked to use their creativity to create a study tool to help them learn the divisibility rules at home.</p> <p>Students are also asked to solve problems using the divisibility rules and use them to determine if a given</p>

		number is divisible by another given number.
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Resources:

Index cards, Chart paper and marker, Prepared index cards with random numbers for divisibility application, cut apart; one side for each students, Jumbled worksheets for numbers upto 5-digits, Incredible Mathematics Grade 4 book, notebooks etc.

Safety Consideration/ Materials

None

Assessment

Related worksheets

Board test

Mind-teasers.

Quiz etc.

Reflection

At the end of the lesson, students will be able to apply divisibility rules to solve problems.