

DAILY LESSON PLAN

Math GRADE:4

(NO.1/6)

INTERNATIONAL DAILY LESSON PLAN

Unit 2: Factors and Multiples.

Date: _____

Topic: Divisibility, Divisibility by 2, Divisibility by 3

Year Level: 4

Key Learning Area: Divisibility rules, Divisibility by 2 & 3.

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>

10 min.	<p>well as understanding the concepts and basics of the topic.</p> <p>Define Divisibility:</p> <p>Divisible By "means" when you divide one number by another number and there is no remainder but the result is a whole number"</p> <ul style="list-style-type: none"> Explain: "Today we are going to learn some special rules that will help us recognize divisibility. By the end of our lesson, you will know some shortcuts that will make it easy for you to determine if numbers, even huge numbers like this, are divisible by other numbers like 2, 3, 4...!" <p>The Divisibility Rules: These rules let you test if one number is divisible by another, without having to do too much calculation!</p> <ul style="list-style-type: none"> Zero is divisible by any number (except by itself), so gets a "yes" to all these tests. Any integer (not a fraction) is divisible by 1 <p>Give examples for each rule. Once the students gets the idea of divisibility for 0 and 1, then introduce the the rules for 2 and 3.</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. 3 will work for me, you see, if the sum is divisible by 3. The 4 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 7. 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., 219,438) and ask students, "Is this number divisible by 2 or 3?" 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.
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LESSON STRUCTURE:

Time	Main Content:	Teaching Approaches
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25 min.	<p>The Divisibility Rule for 2:</p> <p>It is a shortcut for figuring out if a number is divisible by 2 without having to actually solve the division problem. The rule says that any number that ends in a 0, 2, 4, 6, or 8 can be divided by 2 to produce a whole number.</p> <p>So, all even numbers (numbers that always end in 0, 2, 4, 6, or 8) are divisible by 2.</p> <p>The Divisibility Rule for 3:</p> <p>If the sum of the all the digits of that number is divisible by 3, that number is also divisible by 3.</p> <p>So, all Odd Numbers 3,5,7,9 etc are divisible by 3.</p> <p>Worksheets:</p> <p>Handover some printed worksheets where students need to apply the divisibility rule in real life application as:</p> <p><i>A relay race is 1600 meters long. Each competing team consists of two members, and they can split up the distance any way that they want. Ali and Asif are on a team together, and they want to split up the distance so that they both run the same number of meters. Is this possible?</i></p> <p>Give them such real life application for divisibility and ask them before the solution as which divisibility rule is need to apply here and why?</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 theboard 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 2:</i> As the digit at the ones place is even so, it the number is divisible by 2. 128 Yes 129 No • <i>Divisible by 3:</i> As the sum of all the digits in the numbers is the fator of 3 so the numbers are also divisible by 3. <p>381 (3+8+1=12) and (12÷3 = 4) Yes 217 (2+1+7=10) and (10÷3 = 3 ¹/₃) No</p> <p>This rule can be repeated when needed: 99996 (9+9+9+9+6 = 42) then (4+2=6) Yes</p>
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	<p>Once the students get the concept ask them to solve the pages numbers 43-45 of incredible Mathematics of grade 4.</p>	
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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 2 and 3 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 number is divisible by another given number.</p>

Resources:

<p>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.</p>

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.