



Mathematics Planning Template

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Week	Topics/Objectives	Main concepts	Teaching/learning activities	Assessment/Homework activities
Feb 29 to Mar 1 - 4	a. Join sets and tell how many members (repeated addition) b. Develop array to show multiplication facts	Repeated addition Equal groups Joining Groups of Sets of Product Multiplied by Times Rows Columns Array	1. Have students conduct an investigation with money. Allow them to work with partners to determine the amount of money in sets of piggy banks. Provide partners with about 50 \$1 coins, then pose the following problem: "Mrs. Jones brought each of her 7 children a brand new piggy bank. She went to the bank to get enough \$1 coins to put 5 \$1 coins in each of their piggy banks. How many \$1 coins did she need?" Image: Imag	Obj. a 1. Resource Document 2 (Allow students to use array to solve problem)
			their coins, and then allow them to share their solutions	

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			with the class. Engage the students with the following	
			probing questions:	
			a) How many piggy banks did she have?	
			b) How did you find the total number of coins needed?	
			c) After you placed the coins in the bank, did you	
			count all of the coins to find the total? Were there	
			other ways you might have found the total?	
			d) Did anyone skip-count to find the total? Which way	
			would be faster, skip-counting or counting all of the	
			coins? Allow students to justify their answers.	
			e) Did anyone add to find the total number of coins?	
			Why would addition work to solve the problem?	
			f) From the established repeated addition sentence,	
			guide students in writing the multiplication sentence	
			$7 \times 5 = 35$ as you verbalize "7 groups of 5 coins is	
			\$35" or "7piggy bank with 5 \$1 coins in each bank	
			is \$35 total coins."	
			3. Have students model the following problem type and	
			then have them write an addition and multiplication	
			number sentence to represent same:	
			"Peter has 2 bags with 3 cookies in each bag. How	
			many cookies does Peter have?"	
			4. Help students understand the meaning of each number	
			as they join the sets, that is "3" represents the number of	
			cookies in each bag, whereas the "2" stands for the	
			number of bags. The answer "6" represents the total	
			number of cookies in both bags. Therefore, helping	
			students to see part – whole relationship hence in the	
			equation $2 \times 3 = 6$, the '3' tells the number of parts and	
			the '6' represents the whole.	

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			5. Engage students in Fishbowl Multiplication Game	
			(see resource document 1)	
			6. The picture above shows 6 groups of 3 strawberries separated into 5 groups of 3 and 1 group of 3. Allow the child to verbalize:	Obj. b

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			"I know that 5 threes is 15 and 1 more group of 3 is 18,	1. Engage students in activities
			so 6 groups of 3 is 18 and $6 \times 3 = 18$."	with arrays that already are
				split in half; have them write
			7. Show students 3 groups of 7 objects and have them	(or orally state) a number
			write a number sentence for the display. (See resource	sentence for each half and
			document 3 for further development of concept)	then for the total. Also give
				students arrays of 4, 6 and 8,
			8. Using comparison problems involving two quantities,	and ask them to split each
			engage students in activities that will help them to	array in half and write
			describe how many times as much one quantity is	number sentences for each
			compared to another quantity. For e.g.:	part and total.
				(see resource document 5
			"Maria has3 oranges. Tony has 2 times as many	with graph highlighting
			oranges as Maria does. How many oranges does Tony	further development)
			have?"	L /
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			groups of six (2 sixes) is 12, 4 groups of six (4 sixes) is twice as much, which is 24. When at least one of the factors is even, the product may be split into two equal parts.	
Mar	c. Solve problems with addition	Degree Celsius	Activity 1	Obj. c
7 - 11	and subtraction using	• Gram	Allow students to handle graph paper cut-outs of 10 millimetre,	Supermarket scenario. (See resource

measurement (horizontal and	Kilogramme	100 centimetre, 10 decimetres and 1 metre strips. Then allow	doc., page 2)
vertical form)	• Metre	students to explore how many of each unit makes another by	
	Centimetre	covering the surface of one unit by a smaller unit and repeat the	Questions
	Millimetre	process up to a metre. Then have students complete the Fact	a. If john takes up 21 bottles of water
	Decimetre	Sheet (see resource doc., page 1).	with each containing I litre and
	Subtraction	1. Allow students to subtract decimetres from metres.	returns / bottles to the shelf. How
	Addition	2. Allow students to add by seeing how many millimetres make 2 cm etc.	many litres of water did he take?
			b. How long did it take John to shop?
		Activity 2	His breakdown of time is as follows:
		Take a thermometer to class along with three containers. Each	5 minutes to get the water
		container will have water of different temperature – ice water,	3 minutes to select his brand of
		room temperature, luke warm water. Allow students to add and	bread
		subtract in degrees Celsius the different readings of the	4 minutes to find the chicken
		thermometer when the thermometer is dipped in the various	1 minute to get tin milk
		containers with water.	4 minutes to find the soap and
			3 minutes to checkout
		Activity 3	c. What was his shortest route to
		Up & Down the Meter Rule Race (Game)	complete shopping?
		Players: 2-4	
		Materials: Meter Rule, score sheet and two dice of different	d. How many metres more would
		colour.	John have to travel if he took the
		Preparation: Students should understand the number of mm that	longer route?
		make 1 cm.	
		Procedure:	e. John average step was a metre in
		• One colour die will represent tens and the other ones.	length. If John should take a half of a
		Each player will take turns to roll the dice and record	step, how many centimetres would
		their number. Eg. If the child rolls 2 tens and 6 ones.	that be?
		This will be read as: 26 mm. The child will count the	
		result on the meter rule. When the child records this on	t. John noticed two thermometers in
		the score sheet however, this will be 2 cm and 6 mm.	the supermarket. One at the entrance
		When the child rolls again he will add his current result	that read 29 °C and another close to
		to his last. So if he rolls 48 mm, he will count on from 2	the chicken that read 3 °C. What is
		cm and 6 mm to 7 cm and 4 mm.)	the difference in temperature?

			 Once a player reaches 100 cm at the top of the meter rule, each subsequent roll will take the player down the meter rule. Hence, the child will be taking the difference from his last result. The first child to make it up and down the meter rule will be declared the winner. 	g. If John were to wait on cashiers 2 and 4 to return from lunch, it would have taken him 35 minutes to checkout. How much time did he save by going to cashier 1?h. What is the mass of a tin milk and a bar of soap?	
Mar 14 – 18	d. Compare events that occur in 5 and 15 minutes intervals	orientation in reading clock	Activity 1 Engage students in a conversation about their favourite TV programmes and allow them to state the times that these programmes are aired. Let them state or estimate the length of these programmes. Also, let them state or estimate the number of commercial breaks and their lengths in minutes and the frequency in which they occur. Activity 2 Allow students to compare events by directing their thoughts to estimating how long it would take them to sing a song, to sweep the yard, to wash their school uniforms, to clean their rooms etc. Then let them see on a clock that there are 60 minutes. And that every line inside the clock shows a minute. Also, a longer line is drawn every 5 minutes (see Figure 1). Help them to see that some things can be done in a short space of time while others will take longer time.	Obj. d 1. Assign students homework where they will note the duration of their favourite TV programme in a template. Then present their findings in class. Students will get a chance to colour the time intervals on a clock. (see resource document, page 3) eg.	
Grade2N	Grade2NUmberandMeasurementUP20181010v2				

			Figure 1 Activity 3 Take a class a laptop and a projector, if possible. And engage students in an interactive website <u>http://www.time-for-</u> <u>time.com/swf/myclox.swf</u> that will allow them to recognise how a long is a second and a minute. They will be able to see analogue and digital time as well as add and subtract minutes.	Obj. d 2. Give students an assignment to keep a journal where they will record activities that can be done reasonably well in 5 minutes and 15 minutes. They will keep track of these activities for a week and they present in class.
Mar 21 - 23	e. Tell time using calendar	Day Week Month Year	Activity 1 By producing a similar image as Figure 2, allow students to see that there are 24 hours in one day. Let them look at Time Line 1 to see some of the activities that they might do in a day. Allow them to suggest others (see resource doc).	Obj. e 1. Allow students to recognise how they spend their days by completing Time Line 2 with pictures and words descriptors (see resource doc).
				Obj. e 2. Allow students to do a project where they will create a calendar with all the Jamaican holidays.



number 1? b. If you were to point at Thursday 12 th in the 2 nd week and move your finger down to the 3rd week, you would have added 7 days to 12 days which would give you 19 days. Is this the end of the week or the beginning of a new week?	
Activity 3 Allow students to circle their birthdays on last year's calendar and this current year calendar. Have them observe all the days, weeks, and months that transpired in between. Engage them in a rich discussion for them to discover that their last birthday to their next birthday is one year (see resource document, or visit <u>http://www.timeanddate.com/calendar</u> to customise and print your own calendars) Students can also commit to memory the number of days in each month by learning the a poem (See resource document)	