

Mathematical Development		Week: 16	Topic: Addition	Day: 1	Class: Kindergarten	
Learning Outcomes	Activity Plan/Methodology			Time:40 minutes	Assessment of Learning	Resources
Upon the completion of this lesson, Students will be able to: Add objects and two-digit numbers up to 20 by using number line.	Recap: Students will be asked to reinforce numbers from 1-50 while reading them through flashcards. We Are Learning to: Add objects and two-digit numbers up to 20 together by using a number line. What I am looking for: How well you add objects and two-digit numbers up to 20 by using number line. Gained skill: It helps us to enhance our counting, cognitive and visual skills. Introduction: Gather the class together and project the "Number Monster 0-20" song. Say, "Today we are going to practice counting from 0-20 using a new tool: a number line!" take students outside in the playground. Draw a big number line with coloured chalks on the floor. Write the numbers 1 to 20. Ask students Pretend you are a frog. Show your parent or teacher how a frog moves. That's right! Frogs <i>hop</i>. When using a number line, you can pretend that a frog is hopping from number to number. Show them the number equation $11 + 3$. Ask the student the first thing you want to do when using a number line is find the <i>first number</i> in the problem. Ask them which number is first, 3 or 11? That's right! 11 is the first number in the problem. Once you have found the first number, locate that number on the number line below. Ask them show your teacher where the number 11 is on the number line. If you are adding 3 and 11 together, how many jumps does the frog have to make? Share your answer with your teacher. That is correct! The frog needs to jump <i>three</i> times. Every time the frog jumps from one number to the next, it counts as one jump. Look at how the number line looks when the frog jumps from number to number. Ask them the last hop is on number 14. https://youtu.be/iLXNBiGJAGs Focused task: Provide the zip lock bag having a number line across the top of a zipper bag with a slider. Then insert a math fact to practice addition equation and slide along to find the answer. So fun! Ask students read the addition question and give the answer by using the slider on number line. Ask students to open book pgs. no 83 & 84. Ask students draw a time line on board. Write different equations of numbers. Divide students into groups. Ask them to count the sum. Practice this activity to make different sums. Wrap up: Invite students randomly on board and ask them solve the addition sum on number line. Reflection:			5 mins	Students will be assessed on Adding objects and two-digit numbers up to 20 by using number line.	Flashcards Number flashcard, blocks Book pgs. 83 & 84
				5 mins		
				25 mins		
				5 mins		

Mathematical Development		Week: 16	Topic: Addition	Day: 2	Class: Kindergarten	
Learning Outcomes	Activity Plan/Methodology			Time: 40 minutes	Assessment of Learning	Resources
Upon the completion of this lesson, Students will be able to: Add objects and two-digit numbers up to 20 with place value.	Recap: Reinforce adding numbers through flashcard and concrete objects. We Are Learning to: Add objects and two-digit numbers up to 20 with place value. What I am looking for: How well you add objects and two-digit numbers up to 20 with place value. Gained skill: It helps us to enhance our counting, cognitive and visual skills. Introduction: Ask students today we will practice counting by tens as a class. Inform the students they will be learning about place value, or a number's position at first. Give students examples of numbers with the same digits in different places, for example, 12 and 21. Teach them that "place" means the position, or where the digits are. Tell the students in number 12 the value of 2 is once and value of 1 is tense and similarly in number 21 the value of 1 is ones and 2 is tense. Ask them today we are going to do addition by using place value. Ask them when we add the numbers first we add the ones number and write the answer under ones and then we add the tense number and write the answer under the tense. Write the question on board and tell them how to do addition by using place value. https://youtu.be/UM-TSRPBaNO $\begin{array}{r} \text{T O} \\ 15 \\ + 2 \\ \hline \end{array}$			5 mins	Students will be assessed on Adding objects and two-digit numbers up to 20 with place value	Flashcards Numbers, signs flashcards Book pg. no 85, 86 Copy work
	Focused task: Teacher will provide the flashcards of T, O, numbers 1 to 20, and addition sign. Write the number statement on boards. Teacher will ask the students look at the board and make their own statement with the help of flashcards and write the answer. Help students if they need. Ask students to open book pgs. no 85, & 86. Tell them look at the book page and see how they solve the sums by using place value. Ask them open their copies and solve the sums by using place value. Write the question board and ask them solve them. Give them a set amount of time to complete the task and monitor their progress.			5 mins		
	Wrap up: Show the different number to students and ask them tell the answer.			5 mins		
	Reflection : Homework: Do the copy work and solve the given questions.			5 mins		

Mathematical Development		Week: 16	Topic: Addition	Day: 3	Class: Kindergarten	
Learning Outcomes	Activity Plan/Methodology			Time:40 minutes	Assessment of Learning	Resources
Upon the completion of this lesson, Students will be able to: Add objects and solve addition story problems within 20	Recap: Reinforce adding numbers through flashcard and concrete objects. We Are Learning to: Add objects and solve addition story problems within 20. What I am looking for: How well you add objects and solve addition story problems within 20. Gained skill: It helps us to enhance our counting, cognitive and visual skills. Introduction: Gather students together for the start of the lesson. Tell students the following problem, "I love flowers! The other day I saw 12 tulips and 3 roses were blooming in my yard. How many flowers did I see in all?" Ask students to turn and talk to a partner to share what is known in the problem before discussing solutions. Choose students to describe what is known: 1) There were 12 tulips. 2) There were 3 roses. Call on students to share different approaches to solve the problem. Rephrase student thinking and strategies as needed. Show students different picture models of addition word problems to 20 (e.g. 14+3=17, 11+4=15, 10+8=18) and ask them to count the objects in each group and find the total. Model how to draw a picture of each addition model and write the equation that represents it. Emphasize the use of the plus sign (+) and equal sign (=) in writing equations. https://youtu.be/A72bW-V4w6k Focused task: Create an addition machine using a shoe box and two cups with the bottoms cut out. Students roll two dice and then use the machine to figure out the answer by putting balls/counters through the cups to add the two numbers together. Ask students to open book pg. no 87 & 88. Talk about the pictures. Ask them how to find total number? The hen has 10 chicks. Her friend brings 3 more chicks. Ask them we can find total number of objects by adding that 10 chicks + 3 chicks Total: 13 chicks. Ask them we can also make like this 10 + 3 = 13. Make cue cards for each sentence. Paste them on board one by one. Ask class to solve verbally before doing activity on book. Roam around in the class and help students to complete the task. Wrap up: Add different objects to practice adding numbers. Reflection :			5 mins	Students will be assessed on Adding objects and solve addition story problems within 20	Flashcards  Book pg. no 87, 88
				5 mins		
				25 mins		
				5 mins		

Mathematical Development		Week: 16	Topic: Addition	Day: 4	Class: Kindergarten	
Learning Outcomes	Activity Plan/Methodology			Time: 40 minutes	Assessment of Learning	Resources
Upon the completion of this lesson, Students will be able to: Add objects and solve addition story problems within 20	Recap: Reinforce adding numbers through flashcard and concrete objects. We Are Learning to: Add objects and solve addition story problems within 20. What I am looking for: How well you add objects and solve addition story problems within 20. Gained skill: It helps us to enhance our counting, cognitive and visual skills. Introduction: Tell students Addition is finding a total sum by combining two or more numbers. To make the concept more concrete, the teacher can gather the students around the desk and show a concrete representation. For instance, if the question is 'Hamza has 15 apples and gets 2 more from her mother. How many apples does he have total?' The teacher can show 15 pebbles to the students, which represent the 15 apples. The students can then understand that to find out how many apples are total, they need to add 2 more pebbles. After the concrete representation and the game, the teacher can write some word problems on the board. For instance, 'Alia spent Rs.10 on a pack of chips and Rs.6 on a pack of biscuits. How much did she spend in total?' To solve this problem, the teacher can take 10 pebbles to show Rs.10 and 6 pebbles to show Rs.6. The students can then add these to find out the total money Alia spent, which is Rs.16. Focused task: Provide the hanger and clothes pin (pegs) on each table. This is another great hands-on activity to reinforce the concept of addition. Have students roll two dice and then place the clothespins on the coat hanger to show the two numbers rolled. Give each student a number equation and ask them do this activity on given hanger after reading the number. This provides them with concrete materials to then count the total. Create cards with pictures of the daily routine and get kids to do a fun sequencing activity, putting the activities in the order in which they occur on a typical Ask students to open book pg. no 89. Talk about the pictures. Ask their names. Ask them there are 10 Sparrows on the strings. 1 Parrot comes to join sparrows. How many birds are there? $10 + 1 = \underline{\quad}$. Give students different equations of numbers sets. Practice to solve orally all addition sentences before doing it on book. Roam around in the class and help students to complete the task. Wrap up: Add different objects to practice adding numbers.			5 mins	Students will be assessed on Adding objects and solve addition story problems within 20	Flashcards Hanger, clothes pin, number and symbols flashcards  Book pg. no 89 Book pg. no 90
				5 mins		
				25 mins		
				5 mins		

	Reflection : Homework: Do the book pg. no 90.			
Mathematical Development		Week: 16	Topic: Addition	Day: 5
		Class: Kindergarten		
Learning Outcomes	Activity Plan/Methodology	Time: 40 minutes	Assessment of Learning	Resources
Upon the completion of this lesson, Students will be able to: Add objects and solve addition story problems within 20	Recap: Reinforce adding numbers through flashcard and concrete objects. We Are Learning to: Add objects and solve addition story problems within 20. What I am looking for: How well you add objects and solve addition story problems within 20. Gained skill: It helps us to enhance our counting, cognitive and visual skills. Introduction: Explain that today you are going to learn to add. To add means to put two or more numbers together to make a bigger number. If you have two students (ask two students to stand up) and you add two more students (have two more students stand up) then you have four students. You added 2 and 2 and got a bigger number 4. Put a + sign on the white board. Explain that this is a plus sign. Whenever you see the sign it means you are going to add numbers. Ask students if you have 3 counters, but want 5 how many more do you need? This can also be explained as "counting on." In the beginning, always have your students physically do this. Put 3 number cubes on the whiteboard. Have students help you count the number cubes. Add 4 more number cubes and count them. Then have the students' help you count how many number cubes there are in all. Repeat with different addition problems like $2 + 2$, $4 + 1$, $5 + 5$, $6 + 3$, etc until you feel the concept is understood. Focused task: For this whole group, hands-on addition activity, the teacher begins by writing numbers on the whiteboard. These numbers will serve as the sums for the activity, so you can differentiate them by writing numbers to 5, 10, or beyond. Next, the teacher passes out sticky notes with addition sentences written on them. Taking turns, students read their addition sentence aloud, find the sum, and stick their addition sentence over it to complete the equation. Ask students to open book pg. no 91. Ask them look at pictures tell their names. Ask students read the addition word problem and count the objects them give the answer. Ask them practice to solve orally all addition sentences before doing it on book. Give them a set amount of time to complete the task and monitor their progress. Wrap up: Students will be asked to tell the sum of addition sentence written on board.	5 mins	Students will be assessed on Adding objects and solve addition story problems within 20	Flashcards Sticky notes Book pg. no 91
		5 mins		
		25 mins		
		5 mins		

	Reflection : Homework: Do the copy work and solve the given word problems.			Copy work
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