

Mathematical Development		Week: 17	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 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 the students that today we will learn more about addition. 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 board. Explain that this is a plus sign. Whenever you see the sign it means you are going to add numbers. Put 11 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 $12 + 2$, $14 + 1$, $15 + 5$, $16 + 3$, etc. until you feel the concept is understood. Students also play the game, "Match It" with a partner. Using a equation flashcards and answer flashcards, one student will show a way to make a number. Then, their partner will match what they did. Both students then talk about how they made that number. https://youtu.be/AaxrqDuwIXk Focused task: Provide the counters and cup on each table. Ask students we will play a game called "Shake, Shake, Shake." Start with 10 counters in a cup. Students pour out the counters and talk about their red and yellow counters. "I have 10 red and 5 yellow. That makes 15." Repeat this activity with blocks, buttons, candies and beads with all students. Ask students to open book pg. no 92. Ask students solve the addition stories. One student will read the story loudly for all. Ask students 13 lollipops are in the jar. 5 lollipops are outside the jar. How many lollipops are there? Ask them solve the other problem like this. Ask them to solve the sums. 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 solve addition story problems within 20.	Flashcards
				5 mins		
				25 mins		Counters, cups
				5 mins		Book pg. no 92

Mathematical Development		Week: 17	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 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: We talk more about putting numbers together and taking them apart. Count out 12 cubes and snap them together. Then, count out 5 more cubes but break them into two parts and we talk about it. "2 and 3 make 5. What is another way we could break 5 into two parts?" 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 solve the problem which I am going to tell you that there are 15 fish in a tank, and a child adds 3 more. Next, students must represent this situation mathematically. This can be done with manipulatives (use the yellow blocks) and by using the number sentence, $15 + 3 = \underline{\quad}$. Students who are newer to solving story problems will rely on the more concrete representation of manipulatives. https://youtu.be/5EFQjnPo7pc Focused task: Provide the plastic math blocks and sticky notes or notecards. Simply prep the sticky notes or notecards with addition equations. Students will draw an equation and model it using 2 colours of plastic math blocks. Another way to do this activity in a small group is by laying out all of the sticky notes and having students choose an equation, model it, and place their block tower on the equation, working together until all of the equations are covered. Ask students to open book pg. no 93. Tell them look at the pictures tell their name. Read the addition stories with them. Write the questions on board and ask them solve them. Give them a set amount of time to complete the task and monitor their progress. Wrap up: Show the different number to students and ask them tell the answer. Reflection : Homework: Do the book pg. no 95.			5 mins	Students will be assessed on Adding objects and solve addition story problems within 20.	Flashcards Blocks, sticky notes Book pg. no 93 Book pg. no 95
				5 mins		
				25 mins		
				5 mins		

Mathematical Development		Week: 17	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: Show students a picture model of two groups of objects (e.g. 12 apples and 3 bananas) and ask them how many objects there are. Write the equation $12 + 3 = \underline{\quad}$ on the board and ask students what the blank represents. Explain that today, we will be learning how to use drawings and equations to represent addition to 20. Show students different picture models of addition to 20 (e.g. $12+3=\underline{\quad}$, $11+4=\underline{\quad}$, $10+5=\underline{\quad}$) 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. Divide students into small groups and provide each group with blocks, counters or other manipulatives. Instruct students to create their own addition models to 20 and represent them using drawings and equations. Circulate around the room to provide support and guidance as needed. https://youtu.be/uQiUTFO78Jk			5 mins	Students will be assessed on Adding objects and solve addition story problems within 20	Flashcards Dice, blocks 
	Focused task: For this hands-on addition activity, students will roll 2 dice. The jumbo foam dice or any are fun for this and aren't so loud! Roll the two dice and note the numbers on white board. Then the students will write the addition equation and solve it on a dry-erase board. This is a fun small group or math center game. 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.			5 mins		
	Ask students to open book pg. no 94. Talk about the pictures. Ask their names. Read the addition stories with them. Write the questions on board and ask them solve them. Ask class to solve verbally before doing activity on book. Roam around in the class and help students to complete the task.			25 mins		
	Wrap up: Add different objects to practice adding numbers. Reflection :			5 mins		Book pg. no 94

Mathematical Development		Week: 17	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: Gather 2 groups of students in front of room – one group of three, one group of two. Ask students "These three friends like to eat apples, and these two friends like to eat oranges. How many students in all like to eat fruit?" (five) Give each student a set of manipulatives. Ask how many are orange? Green? Add them together. How many orange plus green altogether? How many are purple? How many are there in all? Continue probing questions of students with their counters. Practice writing these in number sentence form: $2+4=6$ $5+8=13$. Ask student pairs to create an addition problem that can be solved using their counters. Pairs of students work together to create problems to each other and solve. Share problems orally. Ask Math riddle: 13 ants arrive early to a party. An hour later, two more ants arrive. How many ants arrived at the party? Ask students model the riddle using snap cubes. 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. Ask students to open book pg. no 96. Talk about the pictures. Ask their names. Ask them Dumbo is an elephant. Dumbo is fond of addition. Try these addition sums with Dumbo. Read the sums with students and ask them solve the sums carefully. 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. Reflection : Homework: Do the book pg. no 98.			5 mins	Students will be assessed on Adding objects and solve addition story problems within 20	Flashcards
				5 mins		Hanger, clothes pin, number and symbols flashcards
				25 mins		
				5 mins		Book pg. no 96 Book pg. no 98

Mathematical Development		Week: 17	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: Tell the students their mission: to come up with as many accurate addition equations adding up to 2 through 20 as possible. Show the students what they must do: first shake up any random amount of two-sided counters in your hands and drop them down on the table. Split up the red counters and the yellow counters into separate piles. Tell the students to count out the red counters with you, then write the number down on a piece of paper. Next have the students count out the yellow counters with you and write that number down. Tell the students that they will be adding up the two piles to see how much they add up to. Show the students how to make an addition equation using numbers, a plus sign and an equal sign. Write an equation to solve how many red counters and yellow counters you have all together. As a class count out all of the counters. Write down the answer. Tell the students to go through the exact steps that you went through with the class. Remind the students that the pair with the most accurate addition problems will win a prize.			5 mins	Students will be assessed on	Flashcards
				5 mins		
				25 mins	Adding objects and solve addition story problems within 20	Equation flashcards, number flashcards
				5 mins		
	Focused task: Distribute half an index card to each student for a mix and match activity. Half of the students will receive the half of the index card with an equation, while the other half of the students will receive the half of the index card that has the equation's answer. Ask two students to model the trading process by asking, "What do you have?" and replying, "I have six plus two" (or whatever the card says). Next, ask students to reverse the questions, and then have them say, "Let's trade. Repeat this activity with all students. Ask students to open book pg. no 97. Ask them look at pictures tell their names. Ask students read the addition word problem and count the objects then 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. Reflection : Homework: Do the copy work and solve the given word problems.				Book pg. no 97	Copy work