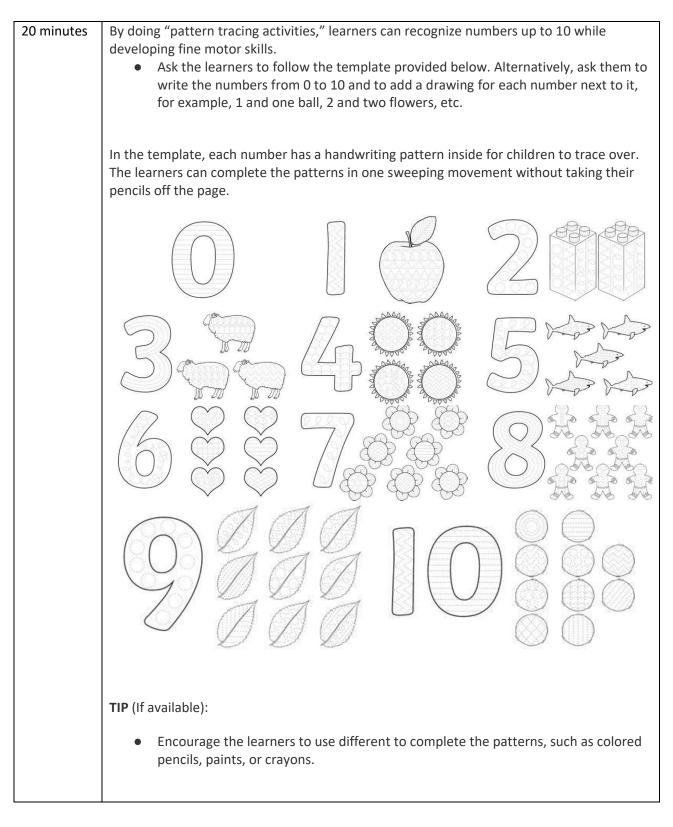
Description: Learners will design their own number line to better grasp number sense and conduct simple addition functions. Leading question: Can you make your own number line? 4 to 5 Years Old Age group: Subjects: Numeracy Total time required: 5 hours over five days Self-guided / Supervised Supervised activity: **Resources required:** Paper, pencils, paint(optional), crayons(optional), cardboard or stiff paper. Learning outcomes: Learners will be able to write numbers from 0-20 • Learners will be able to count numbers from 0-20 forwards and • backward. • Learners will be able to tell what numbers comes before and after. Learners will be able to make their own number line to 20 Learners can make simple additions. •

JUMPING MATH (LEVEL 0)

Day 1 - Today, learners will recall their knowledge about numbers from 0 to 10. Learners will improve their fine motor skills by practicing number formation, counting, and tracing.

Time	Activity and Description		
10 minutes	 Starts counting to 10 in a loud voice Now, ask the learners to count with you to 10 Now again, you can count altogether, this time clapping hands, one clap for 1, two claps for 2, etc Repeat this activity at least three times. Now you can challenge them Have learners count one after the other quickly - anyone to hesitate is out. 		
20 minutes	 A great way to reinforce number formation can be tracing numbers activities: Ask the learners to trace the numbers from 0 to 10. You can provide them with the template below or trace dots on a piece of paper so they can follow. 		
	0 2 3 4 5 6 7 8 9 0 TIP: Repeat this activity at least three times; this will help the learners remember the correct number formation.		



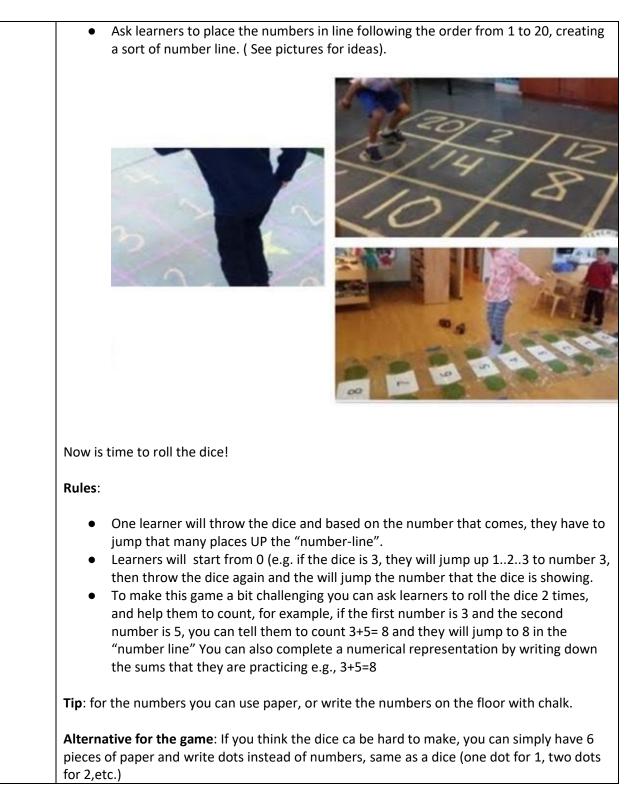




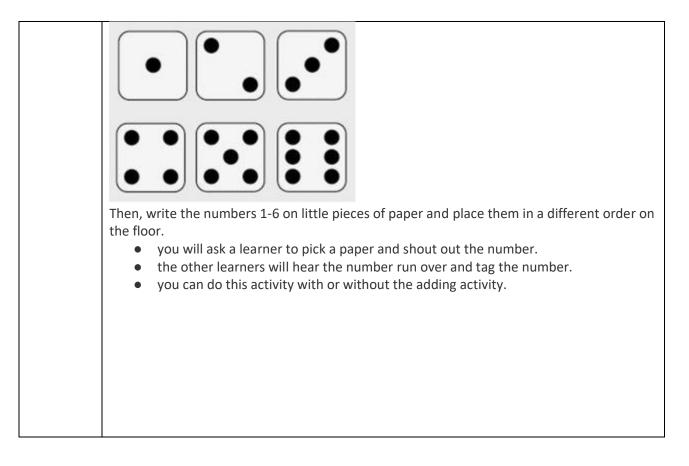
Day 2 Today, learners will start the day by playing a number game. After that, they will recall their knowledge of numbers from 11 to 20. Through a fun game, learners will be introduced to the number line and how to use it.

Time	Activity and Description
10 minutes	Start the learning day with a math game:
	Jumping Game
	No. of Players: more than 3.
	How to Play
	 Call out a number from 11 to 20. (for example, 14)
	• Players will jump the number of times as the number is called out. For example, number called out is 14, they will jump 14 times. To do it more fun, you can change the actions.
	First, they will jump. Next, they will wave their hands, clap, stamp, and turn around in the same spot.
	• Whoever does it the fastest gets 1 point.
	Who has the most points?
	They win the game!
	Tip : repeat the game at least three times. You can change the game by clapping, stamping, and turning around in the same spot.
15 minutes	Counting task:
	 Give the learners the counting worksheet(appendix)and ask them to count the objects and write the numbers they can find.
	 Once they have finished, ask them to check the number formation.
	 If any number is not in the correct formation, you can fix it for them and ask them to repeat the number.
	Tip : Always check the number formation. At this age, kids tend to do "mirror" writing, also called reverse writing (when children write certain letters or numbers backward or upside
	down).
15 minutes	Number dictation: this activity will help the learners to think and remember the number formation.
	 Ask the learners to write the numbers you will tell.
	 Start with numbers from 11 to 20 in that order.
	 Now, tell them the numbers in a different order. For example, two, five, seven,
	three.
20 minutes	Jumping math activity: For this activity, you will make a dice for the learners. See the
	templates in the appendix. Once the dice are done,
	• Give each learner one big square of paper.
	 Each learner will write the number you ask (learner 1 number 0, learner 2 number 1, etc.)Have numbers write up to 20.







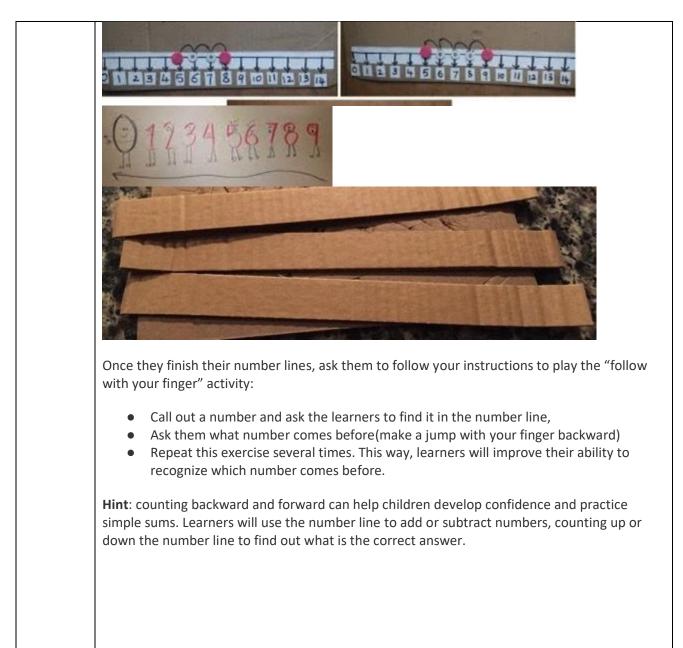




Day 3 - Today, learners will create their personal number lines, they will use these during their math activities. With the help of the number line, learners will improve their ability to recognize what numbers come before and after.

Time	Activity and Description
20	Warm-up activity
minutes	 Provide learners with the tracing template below.
	0 2 3 4 5 6 7 8 9
	11 12 13 14 15 16 17 18 19 2
	 Make a number dictation calling out numbers from 1 to 20. Ask them to write, then change the order of the numbers. They will write a second time
10 Minutes	 Line up game: Learners will now play an ordering game Make 2 or 3 teams of players; this will depend on how many learners you have. Each team member is given a number. The team must line up in the correct number order from small to big without talking. The first team to line up wins and runs to catch the players from the other team. Tip: you can use larger numbers for older kids.
20	Hint: This game is designed to be physically engaging while practicing math concepts.Number lines are an excellent resource to help young learners to learn the numbers from 1 to
30 minutes	20, as well as an excellent aid for when they attempt to work out simple calculations.
	 Provide the learners with a long stripe of cardboard or stiff paper. Ask them to write numbers from 0 to 20, leaving a small space between them. They can use different colors for each number. Ask the learners to do it neat and clear. They will keep this number line for all their math lessons.
	See the examples below.





Day 4 - Today, learners will practise counting backward from 20 to 0. They will introduce simple addition and subtraction equations.



Time	Activity and Description
20 minutes	 Learners will start the day by playing a game: Split the learners into two teams (team A and team B). Find something you can use to point toward the two teams. A magic wand would be great for this, or even just something like a stick. One team will face the other team. Point the wand or stick at the first team, and they say the first number, e.g., '10' if you start from 10 '20' if you start from 20. Then point to the other team who says the following number, '9' or '19'. Then the other team says '8' or '18' Keep bouncing back and forwards between the two teams until you get to zero. Repeat this several times until you are sure they can remember how to count backward. Hint: When they learn how to count, they will know what number comes next in any given sequence.
20 minutes 20 minutes	 Learners will now play this fun subtraction game: "Jump for math" Split the learners into two groups (group A and group B). You will need to write and layout numbers on the floor (from 1 to 20) You will call out two different subtraction questions, one for group A another for group B: "5-2" or "16-4" Learners from each group will solve the question and taking turns will need to jump to the correct answer on the floor. Give 1 point to the fastest group with the correct answer. Hint: This game is designed to be physically engaging while practicing math concepts. Provide the learners with the templates in appendix 3 and ask them to practise counting to
20 minutes	 20 by filling in the missing numbers. Alternatively, you can write numbers for them on a piece of paper. Tip: Learners can warm up by practising writing numbers and then use this as a reference point before finding numbers before and after.

Day 5- Learners will reinforce what they learned this week through different games.



Time	Activity and Description
20 minutes	 Learners will play the "follow with your finger " activity. This time learners will tell you what number comes before and after, using the number line first, then challenging them without the number line. Ask the learners to take the number line they made during day 3. You will call out a number and ask the learners to find that number You will tell them to write on a piece of paper what number comes after and before. They will show you. This time, repeat the activity by calling out the numbers and asking them to find before and after without the number line.
	TIP : Through playing these games, learners will gain more experience working with numbers, performing calculations, and estimating the value of different numbers.
20 minutes.	 Let's jump some numbers! This is an exciting number line activity for learners who can jump across the number line! For this game, You will prepare 20 big squares on paper where you will write numbers from 1 to 20. Place the numbers on the floor following the sequence imitating a big number line. Give each learner 2 simple equations, one adding (5+6=11) and one subtraction(10-4=6). They will write it and solve it. Learners will come to the number line individually. They will read the equation to their peers and then solve it on the big number line. Learners will take turns on the number line and count together as they jump across! Hint: Number line games are super interactive activities that involve the whole group. These games are beneficial when teaching subjects like addition and subtraction.
20 minutes.	 Keep the learners' brains awake with this jumping game. Finish the learning journey with these two fun activities. 1-Stand-Up competition. Make the learners work in groups of 3(optional). You will start reading an addition problem. For example, 5+1= Learners will find the answer and stand up out the answer. If the answer is correct, award them with a point. If the answer is incorrect, give another group a chance to play. They will use the number line for a few rounds to help them. Challenge them by asking them to do it without the number line. 2-Who says?



How to Play
Learners will sit in a circle
 They will take turns calling out any number from 1 to 20. (Eg: 12)
• The first learner to jump (or do any other action you collectively decide) says a
number before (11) and after (13) the number called out.
 If said correctly, they get the point.
• The player with the most points wins!
Tip: Older learners can perform numbers from 1 to 30 or 50.

Additional	Design the number line for 30 - 50.
enrichment	
activities:	
Modifications	Focus only on numbers from 0 to 10, counting forward and backward.
for	Focus only on numbers from 0 to 20, counting forward and backward.
simplification	Make a number line only to 10.
	Addition can be done only with +1



APPENDIX 1

