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Type of lesson plans/ Grade Term/ Learning theme

Numeracy lesson plans Primary 3

Term 3 Asking questions

Numeracy lesson plans Primary 3 Term 3 Asking questions

Weeks 21—25 This is the fifth in a series of six numeracy lesson plan publications, designed to be used throughout the three academic school terms.

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Introduction

Teaching and learning processes in Kwara State have improved as a result of the introduction of the new lesson plans developed by the State School Improvement Team (SSIT). The recent improvement in the quality of education in Kwara is a direct function of quality teaching.

Evidence of improved teaching quality includes an increase in the number of pupils completing basic education and a general improvement in literacy and numeracy levels. Teachers in Kwara have experienced tremendous professional improvements through training and refresher programmes on the new lesson plans, facilitated by SSIT and school support officers (SSOs).

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These lesson plans, designed and edited by Education Sector Support Programme in Nigeria (ESSPIN), have become Kwara teachers' classroom companion.

As teaching manuals, the lesson plans have been designed to provide a step-by-step guide in the teaching of literacy and numeracy. The lesson plans promote more collaborative, interactive, participatory and reflective learning to encourage children to become active learners.

I am sure that continuous use of these lesson plans by teachers will raise the standard of our education in Kwara State and also assist in consolidating the new administration's education reform. I therefore appreciate the contribution of the UK Department for International Development (DFID), through ESSPIN, in designing, editing and producing the lesson plans.

Alhaji Saka Onimago

Honourable Commissioner for Education and Human Capital Development, Kwara State

Alhaji (Barr) Lanre Daibu The Executive Chairman of the State Universal

Education Board

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Numeracy lesson plans Primary 3

Term 3 Asking questions

Introduction Asking questions

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Weeks 21—25

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Effective questioning in the classroom

Pupil participation

Thinking time

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Different questions

Questioning is a very useful way to find out what pupils already know and whether they understand what they are learning. It is also a strategy to measure how successful your teaching is.

When you use questioning as part of your teaching, you are involving pupils in their learning, and giving them immediate feedback. This is a good way to develop motivation. Ask pupils to discuss questions in pairs or small groups. This is a good way to get the whole class talking. It gives pupils the chance to explain their thinking.

Explain to your class that the question is for them to discuss in a pair or a group. Tell them they have 2—3 minutes to discuss it. Ask the question and walk around the class listening to the pupils talk. You can then ask further questions to extend their thinking or help their understanding.

It is really important that when you ask pupils questions you count to 15 in your head before you choose someone to answer. This gives all pupils the chance to think of something to say, not just the 'quick thinkers'.

When asking questions remember to choose pupils from different areas of the classroom – choose pupils who do not have their hand up and choose pupils whose understanding you want to check. The main types of questions are 'closed' questions and 'open' questions. When you ask closed questions there will only be one answer, eg: 'What is 3 x 4?', 'What colour is the dog in the story?'. It is easier to ask closed questions. An open question is one that has many answers, eg: 'What do you think Hassan likes doing on a Saturday?' Asking open questions makes children think of different ideas.

If pupils give you a different answer to the one you are expecting, think carefully about their reasoning – it could be that it is a reasonable answer, just not the one you are expecting.

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Numeracy lesson plans Primary 3

Term 3 Asking questions

Introduction Songs, rhymes, games and teaching aids for the term

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10 chunky chickens song

10 chunky chickens, frying in a pan (x2) / One went pop and another went bang /

There were 8 chunky chickens frying in a pan...

(Continue to subtract two chickens each time, until there are no chickens left in the pan.)

Weeks 21—25

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Buzz game	Multiplication bingo game		Find a friend game	Order the times tables game
Stand or seat the class in a circle. Count around the circle from 1—30, with each pupil taking a turn to say a number. When teaching the 3 times table, pupils should shout 'buzz' instead of 3, 6, 9 When teaching the 5 times table, count up to 50 and	 Play this in groups. Ask pupils to draw the grid shown below and tell them to write a different answer from the 3 times table in each square (in any order). Call out some multiplication questions, eg: 3 x 6 and 3 x 5. If groups have the answer to the question in their grid, 	The first group to cross out all of their numbers shouts 'Bingo' and is the winner. You can use the same game for other times tables.	Make flash cards with the sums from a multiplication table, eg: 1 x 3, 2 x 3.Write the answers on separate flash cards.Give each pupil a card.Tell the pupils if they have a sum they have to find someone with the answer, and if they have the answer they have to find someone	Make a set of cards containing answers to one of the times tables. Make enough for each group to have a set. Shuffle the cards in each set. Place the sets of cards at intervals along a line about 10 metres from the pupils.
tell the pupils they should shout 'fizz' instead of 5, 10, 15 when it is their turn.	they can cross it out.		with the matching sum.	Tell the pupils in each group to stand one behind the other, behind a starting line, facing the cards.
You can use the game to help teach other times tables.	- Multiplication bingo grid			Shout, 'Go' and tell pupils in each group to take turns in running to get a card, which their group must arrange in the correct order.
				The first team with all the cards in order is the winner.

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Number bonds game Mou

Mouse number line

Make a triangular prism

Get a strip of paper and mark it in 51 equal sections

Label the sections from

mouse to become its tail.

0-50 and stick this

number line on to the

and draw a picture of

a mouse on it.

(eg: 1cm each)

Multiplication tables missing numbers

Get the pupils to form a circle.

Say a number between 0 and 9.

Ask the pupils to reply quickly with the number they need to add to make 10.

For example, if you are teaching number bonds to 10, you say '2' and they reply '8'.

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For number bonds to 20, you say '12' and they reply '8', you say '15' and they reply '5'.

For number bonds to 100, you say '25' and they reply '75'. Explain to the pupils how to use the grid shown right to help with multiplication.

To help work out 3 x 4, put one finger on the 3 and one on the 4 as shown.

Slide your fingers along and down until the '3' finger meets the '4' in the square containing 12.

This shows that $3 \times 4 = 12^{-1}$ as shown in the grid.

Draw the table on a large piece of card or the chalkboard.

Prepare some blank cards to fit over the squares.

Ask the pupils to look away.

Place a square over a number and ask the pupils to tell you which number is missing. Multiplication table

ſ		1	2	3	4	5	6	7	8	9	10
	1	1	2	3	4	5	6	7	8	9	10
	2	2	4	5	8	10	12	14	16	18	20
	3	3	6	9	12	15	18	21	24	27	30
	4	4	8	12	16	20	24	28	32	36	40
	5	5	10	15	20	25	30	35	40	45	50

Number beads to 100

Pictogram showing the number of pupils late for school

Thread beads on to a piece of string or cotton to make a moveable bead string as shown below.

If beads are not available, use cut-up straws and place them on a string or washing line.

After each set of Ten beads, change the colour of the beads.

Make sure there is space to move the beads along the string.

Monday	₰₰₰₰₰₰₰₰₰₰
Tuesday	፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟
Wednesday	
Thursday	\mathcal{K}
Friday	



Number beads

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Week 21 Multiplying two-digit numbers using the grid method

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Words/phrases

Assessment

multiply times x multiplication multiplied by lots of groups of product of repeated addition

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During the lesson, walk round the classroom and ask questions to see if the pupils clearly understand what you have taught them. If not, help them to understand by explaining the idea to them again, or asking other pupils to help them. You may need to use some different examples of the idea. ()

Lesson title

Numeracy lesson plans Primary 3

Term 3 Asking questions

Week 21 Multiplying two-digit numbers using the grid method Day 1

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Multiplication (repeated addition)

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Learning outcomes	Daily practice	
By the end of the lesson, most pupils will be able to: Use a number line to count in 2s and 3s. Work out multiplication calculations using repeated addition.	Pair taskShow the pupils the 'Mouse number line'.Give out the strips of paper.Tell the pairs to write the numbers from 0—50 in order in the sections.	
Teaching aids Before the lesson: Have ready the 'Mouse number line'	Ask questions to make the pupils count on and count back, eg: 'What is 15 more than 27?' 'What is 13 less than 40?' 'What is 6 more than 38?'	
explained in the introduction. Have ready a strip of paper divided into 51 equal sections for each pair of pupils.	Tell the pupils to use their number lines to help them answer the questions.	
Read MAN Primary Mathematics 3, page 105.		

15 minutes

10 minutes	25 minutes MAN Primary Mathematics 3			10 minutes
Introduction	Main activity			Plenary
Pair task	Group teaching		Pair task	Pair task
Ask the pairs to use their number lines to count in relationship between	Write the following problems on the chalkboard and	Ask the pupils to use a number line to complete	Ask each pair to have ready their number line.	
2s with you (2, 4, 6) and then in 3s.	multiplication with the following example:	discuss how to do them with the pupils:	questions 1, 2, 4 and 5 in MAN Primary Mathematics 3, page 105, Exercise A.	Ask the class addition questions to 20, and tell them to answer quickly by pointing to the answer
Tell them to use a number		,		
		on their number line.		
	8 + 8 + 8 + 8 + 8 = 40 is 5 lots of 8, which is the same as 5 x 8 = 40.	+12 +12 +12 0 12 24 36		
		2 How many bottles are		

there in 6 crates of Coke if there are 6 bottles in

1 crate?

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Numeracy lesson plans Primary 3

Term 3 Asking questions

Week 21 Multiplying two-digit numbers using the grid method Day 2

Multiplication using the grid method

Lesson

title

Learning outcomes	Daily practice	
By the end of the lesson, most pupils will be able to: Say number bonds to 20. Use the grid method to multiply two-digit numbers.	Pair taskGive the pairs the number cards from 0—20.Ask them to find someone who has a number that will add to theirs to make 20, eg: 18 + 2, 16 + 4.	
Teaching aids	Tell the pupils to sit down when they have found someone.	
Before the lesson: Have ready 0—20 number cards. If there are more than 20 pupils, make duplicate cards. If there are fewer than 20 pupils, place the extra cards face up on the floor. Make sure each pair has the number line they made yesterday.	Ask problems such as: - 'If I have 23, how many more do I need to get 50?' 'If I have 34, how many more do I need to get 50?' Tell the pupils to use their number - lines to help them answer.	
Read MAN Primary Mathematics 3, page 103.		

minutes

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10 minutes	25 minutes		10 minutes
Introduction	Main activity		Plenary
Pair task	Whole class teaching		Pair task
Tell the pupils to use their number lines to answer questions from the 2, 3 and 5 times tables. Ask them 5 questions from the 2, 3 and 5 times tables. Tell them to write out the 2 and 3 times tables in their exercise books.	Choose some pupils to write some two-digit numbers on the chalkboard.	Draw a grid underneath (as shown below) and write 'x 3' by the side.	Ask the pupils to use the grid method to work out 32 x 3 and 21 x 4.
	 pupils to expand the rest (eg: 46 = 40 + 6). Tell the pupils you are going to teach them a new way to multiply bigger numbers. 	Ask, 'What is 3 x 30?' (90), 'What is 3 x 6?' (18).	Choose some pairs to explain on the chalkboard how they worked them out.
		Write the two answers in the grid and add them up: 90 + 18 = 108'. Write the answer, ie: $36 \times 3 = 108$ '.	
Choose some pairs to say the tables and ask			
the others to check if they are correct.		Repeat with 23 x 4.	
	(36 = 30 + 6).	Tell the pupils to write the sum and draw the grid in their exercise books as you explain it.306	

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Lesson Game title minutes Learning outcomes **Daily practice Multiplication**

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Week 21 Multiplying two-digit numbers using the grid method Day 3

Numeracy

Primary 3

Term 3

lesson plans

Asking questions

using the grid method

By the end of the lesson, most	Whole class teaching
pupils will be able to:	Play the 'Number bond' game
Know the 3 and 5 times tables.	as you did yesterday.
Use the grid method to multiply	Ask the class problems such as:
two-digit numbers.	'If I have 65, how many less is it than 68?'
Teaching aids	'If I have 34, how many less is it than 40?'
Before the lesson:	Tell the pupils to use their number lines to help them answer.
Have ready the 0—20 number cards from yesterday.	

Read the instructions for playing 'Buzz'.

10 Game minutes	25 minutes			10 minutes
Introduction	Main activity			Plenary
Whole class teaching	Whole class teaching		Pair task	Whole class teaching
Ask the pupils to say the 3 and 5 times tables with you.	Ask the pupils what the sign 'x' means (times, multiply).	Remind the pupils how to multiply two-digit numbers, eg: 45 x 2.	Write the following sums on the chalkboard 36 x 2 =	Call out some examples from the 3 and 5 times tables and ask the pupils
Play 'Buzz' with the 3 times table.	Ask them to expand the following numbers: 26, 45, 32, 39, 12, 33. Tell the pupils to write them in their exercise books like this: '26 = 20 6'. Choose some pupils to quickly write their answers on the chalkboard.	Tell them to expand 45 (40 5).Draw a grid as shown and write 'x 2' by the side. $40 5$ $40 5$ x28010Ask, 'What is 2 x 40?' (80), 'What is 2 x 5?' (10).Write the two answers in the grid and add them up: '80 + 10 = 90'.Write the answer: '45 x 2 = 90'.	27 x 2 = 14 x 2 = 43 x 2 = Ask the pupils to work out the answers in their exercise books using this method.	to say the answers.

Lesson title		15 minutes
Multiplication	Learning outcomes	Daily practice
problems	By the end of the lesson, most	Group task
	pupils will be able to:	Remind the pupils how expanding
	Add three-digit numbers together using a number line.	 numbers can help when adding two numbers together.
	Use the grid method to solve multiplication problems.	Demonstrate adding three-digit numbers using a number line, eg: 136 + 243.
	Teaching aids	Start with the larger number, ie: 243
	Before the lesson:	Expand the smaller number, ie: 136 136 = 100 + 30 + 6
	Make sure each pair has the number line they made on Day 1.	- +100 +30 +6 243 343 373 379
	Write the problems in the main activity on the chalkboard.	- L 136 + 243 = 379
		Choose some pupils to help you work out 208 + 124.

Numeracy lesson plans Primary 3

Term 3 Asking questions

Week 21 Multiplying two-digit numbers using the grid method Day 4

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10 minutes	25 minutes		10 minutes
Introduction	Main activity		Plenary
Pair task	Group task		Whole class teaching
Tell the pupils to count in 3s using their number line.	Write '22 x 5 =' on the chalkboard and ask - the pupils how we can	Read the following problems and ask what we need to do to solve them, ie: multiply	Choose some pupils to write their calculations on the chalkboard.
Write the following sums on the chalkboard: 3 x 9 = 3 x 6 =	IS work it out. using the grid method: A Demonstrate with the grid method. How many legs have c 12 cows got? If	How many legs have	Ask the class if they are correct.
3 x 0 = 3 x 4 = 3 x 8 = 3 x 5 =		If not, choose other pupils to help correct them.	
3 x 3 = 3 x 10 =		Each pupil has 3 mangoes. There are 24 pupils.	
Ask the pairs to complete the sums in	-	How many mangoes are there altogether?	
their exercise books.		Ask the groups to solve the problems in their	

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exercise books.

Numeracy lesson plans Primary 3

Term 3 Asking questions

Week 21 Multiplying two-digit numbers using the grid method Day 5

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Multiplication vocabulary

Lesson title

	15 minutes 	
Learning outcomes	Daily practice	
By the end of the lesson, most pupils will be able to:	Whole class teaching Demonstrate how to work out	
Add three-digit numbers using	526 + 126 on the chalkboard.	
a number line.	Ask a pupil to expand	
Use multiplication vocabulary.	the smaller number, ie: 126 = 100 + 20 + 6.	
Teaching aids	Ask them to show you where they start counting (526) and	
Before the lesson:	write it on the left-hand side of the number line.	
Make sure the pupils have the number lines from yesterday.	Use the expanded number to make jumps along the number	
Read the instructions for	line to give the answer.	
Multiplication bingo' and Find a friend' in the introduction.	Write the final answer underneath the number line:	
Write the problems in the main	⁶ 526 +126 = 652'.	
activity on the chalkboard.	Ask the pupils to solve the following sums in their exercise books using number lines: 437 + 128, 376 + 214.	
	Ask them to compare their answers with a partner.	

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10 Game minutes	25 minutes		10 Game minutes
Introduction	Main activity		Plenary
Whole class teaching	Pair task		Whole class teaching
Tell the pupils to say the 2, 3 and 5 times tables with you. Play multiplication 'Find a friend'.	Ask the pupils to use their number lines to complete the following calculations: 4 x 7 4 x 8 6 x 5 6 x 7 Choose some pairs to say the answers. Ask the class if they are correct. If not, ask them to say the correct answer. Explain that the sign 'x' means 'multiply' but it is also called 'times' and 'the product of'.	 Read and explain the problems on the chalkboard: 1 What is 13 times 6? 2 What is 23 multiplied by 4? 3 What is the product of 32 and 2? 4 3 boys have 12 sticks each. How many sticks are there altogether? Tell the pupils to work out the answers in their exercise books using the grid method. Check their work and help them if they have difficulties. 	Play 'Multiplication bingo' with the 3 times table.

Week 22 Dividing whole numbers

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Words/phrases

Assessment

share share equally

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divide
 divided by
 divided into
 group
 grouping
 equal groups of
 group in 2s, 3s, 4s...
 place value

During the lesson, walk round the classroom and ask questions to see if the pupils clearly understand what you have taught them. If not, help them to understand by explaining the idea to them again, or asking other pupils to help them. You may need to use some different examples of the idea. ۲

Lesson title

Numeracy lesson plans Primary 3

Term 3 Asking questions

Week 22 Dividing whole numbers Day 1

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Dividing numbers using grouping

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Learning outcomes	Daily practice
By the end of the lesson, most pupils will be able to:	Pair task Ask the pupils to say the
Say the 4 times table.	3 times table.
Use grouping to solve division problems.	Tell them to use their number lines to help them say the 4 times table
Teaching aids	Tell the pupils to write the 4 times table in their exercise books.
Before the lesson:	
Have ready at least 35 counters for each group.	
Make sure each pair has the number line they made last week.	

15 minutes

10 minutes		25 minutes		10 minutes
Introduction		Main activity	Plenary	
Whole class teaching		Group task		Whole class teaching
Ask the pupils to stand in a circle and count forwards in 3s and then 4s.	Ask, 'How many groups are there?'	Give the groups the counters to work with.	Ask the pupils how many groups they have made. (There are 4 groups	Choose some pupils to say their answers.
Ask them to count backwards in 3s and then 4s.	Record this on the chalkboard as shown below.	and explain that it means divide or share. Write '8 \div 2 =' on the	of 2 in 8.) Tell them we write this as $8 \div 2 = 4.$	'I want to share 15 pencils among 5 pupils. How many will they have each?'
Tell the pupils to stand in a line. (Make sure there is an even number of pupils – if not, join in yourself).	There are 15 groups of 2 if there are 30 pupils in the class.	 chalkboard and say, 'This means 8 shared in 2s. How many groups of 2 are there in 8?' 	Write the following sums on the chalkboard: 20 ÷ 4 = 16 ÷ 2 =	Tell the pupils we can write this as '15 ÷ 5 ='. Ask pupils to group the counters to find the answ
Tell the pupils to arrange themselves in groups of 2.	-	Put 8 counters on the table and share the counters into groups of 2.	 35 ÷ 5 = Tell the pupils to group the counters and complete the sums in their exercise books. 	

Number line

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+	2 +	2 +	2 +	2 +	-2 +	2 +	2 +	2 +	2 +	2 +	2 +	2 +	2 +	2 +	2
(\searrow	\searrow	\searrow	\searrow		\searrow	\mathbf{r}								
0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
1	- I	- I	- I	1	- I	- I -	- I -	- I	- I	- I	- I	- I -	- I	- I -	- I.

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Numeracy lesson plans Primary 3

Term 3 Asking questions

Week 22 Dividing whole numbers Day 2

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Dividing numbers using a number line

Lesson

title

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Learning outcomes	Daily practice
By the end of the lesson, most	Whole class teaching
pupils will be able to:	Ask the pupils to say the 3 and
Know the 4 times table.	4 times tables.
Use a number line for division.	Ask them to count in 5s.
Teaching aids	Play 'Order the times tables' with the 4 times table cards.
Before the lesson:	
Read the instructions for the Order the times tables' game.	
Make a set of cards containing answers to the 4 times table.	
Have ready a large and small sheet of paper for each group and masking tape.	

Game

minutes

10 minutes		25 minutes		10 minutes
Introduction		Main activity		Plenary
Group task		Group task		Whole class teaching
Give each group a large sheet of paper.	Show the pupils how to write their groupings as division	use a number line to	Ask, 'How many jumps of 4	Ask pupils from each group to come and explain their
Tell each group a different number eg: 4, 6, 8, 10.	sums on the smaller piece of paper, eg: '6 \div 2 = 3'.	Draw an empty number line	make 24?' The answer is 6 jumps, so	answers on the chalkboard.
Tell them to cut their paper into that number of equal sections.	Stick each grouping on the wall with the division sum underneath.	on the chalkboard. Tell the pupils you need to work out 24 ÷ 4.	$24 \div 4 = 6.$ Repeat with 18 ÷ 3.	
Ask them to arrange the sections in groups of 2, count the number of groups they have made and tell the class, eg: There are 3 groups of 2 in 6.		Start from 0 and move forwards in groups (jumps) of 4 until you reach 24. +4 + 4 + 4 + 4 + 4 + 4 0 4 8 12 16 20 24	Write the following sums on the chalkboard: $15 \div 3 =$ $16 \div 4 =$ $32 \div 4 =$ Ask the groups to complete the sums in their exercise books using number lines.	

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Numeracy lesson plans Primary 3

Term 3 Asking questions

Week 22 Dividing whole numbers Day 3

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Dividing numbers using a number line

Lesson

title

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Duthe and of the leasen meet	Whole class togething		
By the end of the lesson, most pupils will be able to:	Whole class teaching		
Know the times tables up to	Ask the pupils to say the 2, 3, 4 and 5 times tables.		
the 5 times table.			
Divide numbers using a number line.	Play 'Order the times tables' with the 3 times table cards.		
Teaching aids			
Before the lesson:			
Read the instructions for the Order the times tables' game.			
Have ready a set of cards containing the answers to the 3 times table for each group.			
Have ready a large and small sheet of paper and a washing line and pegs for each group.			

Game

minutes

10 minutes		25 minutes		10 minutes
Introduction		Main activity		Plenary
Group task		Whole class teaching		Whole class teaching
Give each group a large sheet of paper.	Ask the pupils to count the number of groups they have	On the chalkboard, demonstrate how to work	Ask, 'How many jumps of	Ask pupils questions from the 3 times table.
Give each group a different number in the 3 times table, eg: 6, 9, 12, 18.	hung on the washing line. Ask them to write it as a division sum on the smaller	out 27 ÷ 3. Tell the pupils to copy each stage with you in	3 make 27?' and, 'What is the answer to 27 ÷ 3?'.	
Tell them to cut their paper into that number of equal sections.	piece of paper and hang it next to their groups, as shown below.	their exercise books. Ask them to draw an empty number line in their	Write the following on the chalkboard: 21 ÷ 3 =	_
Ask the groups to hang the sections on the washing line in groups of 3.		exercise books. Start from 0 and move forwards in groups of 3.	36 ÷ 4 = 45 ÷ 5 = Ask the pupils to complete the sums in their exercise books using number lines.	_



Lesson title

Numeracy lesson plans Primary 3

Term 3 Asking questions

Week 22 Dividing whole numbers Day 4

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Multiplication tables and division

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on a large piece of card.

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Learning outcomes	Daily practice
By the end of the lesson, most	Whole class teaching
pupils will be able to:	Practise the times tables
Use multiplication tables to solve division problems.	using the 'Multiplication tables missing numbers' activity.
Divide numbers by 10 by moving the place value.	Ask the pupils to write the 4 times table <mark>backwards</mark>
Teaching aids	in their exercise books, ie: 10 x 4 = 40, 9 x 4 = 36.
Before the lesson:	
Read the instructions for Multiplication tables missing numbers' in the introduction.	
Make a multiplication table	

15 minutes

10 minutes		25 minutes		10 minutes
Introduction		Main activity		Plenary
Whole class teaching		Whole class teaching		Pair task
Show the pupils that multiplication tables can help us to solve division problems, using the	Write the following division sums on the chalkboard: 6 ÷ 3 = 12 ÷ 3 = 18 ÷ 3 =	Demonstrate how to use a number line to work out 70 ÷ 10. Start from 0 and move	Tell the pupils when we divide by 10, the number becomes ten times smaller. Write the following on the	Say, 'What is 10 divided by 2?' and ask the pupils how we can work this out.
1 8 ÷ 2 means how many groups of 2 are in 8? wh (4 groups of 2 make 8 or will	Ask the pupils to say what multiplication sum will help them to work out each sum.	forwards in Tens. Ask, 'How many jumps of 10 make 70?'	chalkboard: $ \begin{array}{rcl} -& 20 \div 10 = \\ & 80 \div 10 = \\ & 90 \div 10 = \\ \end{array} $ $ \begin{array}{rcl} -& Ask the pupils to complete \\ \end{array} $	Repeat with other division calculations involving the 2 and 3 times tables.
 2 15 ÷ 3 means how many groups of 3 are in 15? (5 groups of 3 make 15 or 5 x 3 = 15 so 15 ÷ 3 = 5.) 		The number of jumps is 7 so $70 \div 10 = 7$. Repeat with $30 \div 10$ and $50 \div 10$. Ask what is happening to the number being divided, ie: 70 becomes 7, 30 becomes 3.	these sums without using a number line.	

Lesson title

Numeracy lesson plans Primary 3

Term 3 Asking questions

Week 22 Dividing whole numbers Day 5

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Word problems using division

Learning outcomes **Daily practice** By the end of the lesson, most Whole class teaching pupils will be able to: Practise the times tables Use a number line and using the 'Multiplication tables multiplication to solve division missing numbers'. word problems. Ask the pupils to write the 5 times table backwards in their Use different vocabulary exercise books, ie: $10 \times 5 = 50$, for division. $9 \times 5 = 45$. **Teaching aids Before the lesson:** Read the instructions for 'Multiplication tables missing numbers' in the introduction. **Read MAN Primary Mathematics**

15

minutes

3, page 117.

10 minutes		25 MAN Primary minutes Mathematics 3	10 minutes	
Introduction		Main activity	Plenary	
Whole class teaching		Pair task	Pair task	
Ask the pupils to mention some of the words for the sign '÷', ie: share, divide, put into groups.	Tell them they can write this as a division sum, ie: $16 \div 4 = 4$, and use a number line	Ask the pupils to solve the problems in MAN Primary Mathematics 3, page 117, questions 6, 7, 9, 10 and 13.	Ask the pairs to check their answers using the multiplication table. Eg: in number 6,	
Ask them to help you solve the following problem: 'I need to share 16 pencils equally between 4 pupils. How many will they have each?'	to answer it. They could also solve the problem using multiplication,	Explain that the way the sums are laid out is another way to show 'divide'.	$27 \div 3 = 9$ because 3 x 9 = 27.	
	ie: 16 ÷ 4 means how many groups of 4 are in 16? (4 groups of 4 make 16, or 16 x 4 = 4.)	Tell the pairs to use either a number line or multiplication to help them work out the answers.		

Week 23 Area of regular shapes

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Words/phrases

Assessment

area surface bigger smaller square centimetre cm² multiply length breadth l x b During the lesson, walk round the classroom and ask questions to see if the pupils clearly understand what you have taught them. If not, help them to understand by explaining the idea to them again, or asking other pupils to help them. You may need to use some different examples of the idea. A

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Numeracy

lesson plans Primary 3

Term 3 Asking questions

Week 23 Area of regular shapes Day 1

Comparing areas of shapes

Lesson title (\bullet)

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Learning outcomes	Daily practice
By the end of the lesson, most	Whole class teaching
pupils will be able to:	Write the following on the
Solve simple division problems.	chalkboard: 'There are 8 sweets.
Compare the area of objects in the classroom.	 How many sweets can 4 pupils have each?'
	Ask the pupils what methods
Teaching aids	they know to help them solve
	 this problem, eg: draw a number line or use the 4 times table.
Defens the lessen	$4 \times 2 = 8$. So $8 \div 4 = 2$.
Before the lesson:	
Read MAN Primary Mathematics	 Ask the pupils to do the following sums in their exercise books:
3, pages 160—161.	
	12 ÷ 3 =
	40 ÷10 =
	35 ÷ 5 =

15 minutes

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10 minutes	25MAN PrimaryminutesMathematics 3		10 minutes
Introduction	Main activity		Plenary
Whole class teaching	Group task		Whole class teaching
Tell the pupils the surface of something is called the <mark>area</mark> .	Tell the pupils to look at MAN Primary Mathematics 3, page 160.	Read and explain questions 6—10 in MAN Primary Mathematics 3, page 160.	Draw a large square and a small square on the chalkboard.
Ask them to mention areas they can see, eg: a desk top, the floor, the chalkboard.	 Ask them to point to the square with the larger area and the circle with the smaller area. Ask the groups to find out how many of their exercise books can cover their desk. 	Tell the pupils to write the answers in their exercise books.	Ask the pupils which has the smaller area. Ask them to draw two
Ask the pupils to compare the area of their desk and your table.		Choose someone from each group to explain their answers and ask the class if they agree.	circles in their exercise books. Make one circle have a smaller area.
Which is bigger? Ask them to compare the area of their exercise books and the textbook.	Choose a pupil to cover the teacher's table with exercise books. Ask the class to count	Ask the pupils to name some bigger areas in the classroom, eg: the floor, the ceiling.	Tell the pupils to write 'larger area' and 'smaller area' on the correct circles.
	how many books he or she uses.	Ask them which is the biggest and which is the smallest area in the classroom.	

Term 3 **Asking questions** Lesson

title

Week 23 Area of regular shapes Day 2

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15 Game minutes Learning outcomes **Daily practice Unit squares** By the end of the lesson, most Whole class teaching pupils will be able to: Play 'Multiplication bingo'. Complete simple multiplication Write the following sums sums. on the chalkboard: Use Unit squares to measure area. 3 x 7 = 5 x 7 = $4 \times 6 =$ **Teaching aids** 3 x 9 = 3 x 8 = Before the lesson: Ask the pupils to complete the sums in their exercise books using Remind yourself how to play a number line. 'Multiplication bingo'. Make enough 1cm x 1cm squares to cover a mathematics textbook. Make a set for each group. Have ready card rectangles with areas of: 8cm x 2cm. 4cm x 2cm. 5cm x 2cm, 5cm x 4cm and 3cm x 4cm. Label the rectangles A, B, C, D and E.

10 minutes		25 minutes		10 minutes	
Introduction		Main activity		Plenary	
Pair task		Group task		Whole class teaching	
Ask the pairs to use their palms to cover the surface of the table, desk and the	Choose some pairs to say how many palms each area measured.	Tell the pupils that to be accurate we use Unit squares to measure area.	Compare the groups' results with their estimates.	Ask each group to say one of their results.	
cover of their textbook.	Ask if anyone can explain	Show them a 1cm x 1cm	Repeat with an exercise book.	Write the results on the chalkboard and keep for	
Fell them to count the number of hand palms it akes to cover the surface of	why some of the answers are different, ie: some pupils	are different, ie: some pupils a 'Unit square'.	square. Tell them it is called a 'Unit square'.	Give each group a card rectangle.	- the next day.
each item.	have bigger palms than others.	Ask the groups to estimate how many Unit squares will	Ask the groups to measure the area of their rectangle	-	
Fell them that they are neasuring the area in hand		cover the front of a textbook.	with the Unit squares.		
palms.		Give out the squares and ask the pupils to cover the textbook with them and count the number of squares they used.	Tell them to record the answer in their exercise books, eg: 'A = Unit squares'.	-	
			Swap the rectangles several times and repeat the activity.	-	

Term 3 Asking questions

Week 23 Area of regular shapes Day 3

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Lesson title

Centimetre squares

Learning outcomes

By the end of the lesson, most pupils will be able to:

Know the 4 times table really well.

Measure area in cm².

Teaching aids

Before the lesson:

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Read MAN Primary Mathematics 3, page 164.

Have ready the Unit squares for each group and the measurements of the rectangles from yesterday.

Have ready a large piece of paper or card for each group.

Daily practice

Game

15

minutes

Whole class teaching

Play 'Multiplication bingo' using the 4 times table.

10 25 10 MAN Primary minutes minutes minutes Mathematics 3 Introduction **Main activity** Plenary Whole class teaching Pair task **Group task** Hold up a Unit square. Explain that a single Unit Give each group the cm Tell the pupils to look at square has an area of 1cm², squares. **MAN Primary Mathematics** Explain that a Unit square two Unit squares have an 3, page 164. is always the same size: Ask them to arrange (or area of 2cm², and so on. 1cm x 1cm. paste) the cm squares on to Explain how to count the Look at the rectangles from their large piece of paper. squares to find the area of Write 'cm²' on the yesterday. each shape. chalkboard and tell the Tell them to make rectangles pupils this is how we write Choose some pupils to with the squares. Tell the pairs to complete count the number of Unit exercises B and C in their the area of an object in Ask them to write the area in centimetres. squares each will hold to exercise books, saying cm² by each rectangle. find its area, then write the their answers as cm². answers as 'cm²'. Ask each group to show their rectangles. Discuss the areas of the shapes and say which

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are bigger and which are

smaller.

Lesson title

Numeracy lesson plans Primary 3

Term 3 Asking questions

Week 23 Area of regular shapes Day 4

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Calculating area

By the end of the lesson, most pupils will be able to:

Solve division word problems.

Learning outcomes

Calculate the area of rectangles.

Teaching aids

Before the lesson:

Read the instructions for 'Multiplication missing numbers' in the introduction.

Read MAN Primary Mathematics 3, page 164.

Daily practice

15

minutes

Whole class teaching

Do the 'Multiplication missing numbers' activity.

Write the following problems on the chalkboard:

- 1 5 children get 20 mangoes off the tree. They share them equally. How many do they have each?
- 2 A tin holds 3 pens. How many tins are needed for 24 pens?

Ask the pupils to complete the problems in their exercise books.

Encourage them to use a number line or their times tables to find the answers.

10 MAN Primary minutes Mathematics 3		25 minutes		10 minutes	
Introduction		Main activity		Plenary	
Whole class teaching		Group task		Whole class teaching	
Tell the pupils to look in MAN Primary Mathematics 3, page 164, Exercise B,	There are 3 rows of 4 squares, which we can write as '3 x 4'.	Write the following measurements of rectangles on the chalkboard:	Tell the groups to find the area of each rectangle by multiplying the two	Choose a representative from each group to explain their answers.	
question 2. Ask if they can think of a quick way to find the	$3 \times 4 = 12$ so there are 12 squares.	 breadth 4cm 2 length 10cm, breadth 4 cm 3 length 7cm, breadth 2 cm 	numbers together. Ask them to write each as a multiplication sum in their exercise books and write the answers as cm ² .	Ask, 'Which area is the smallest?' 'Which area is the biggest?'	
area instead of counting all the squares.	Tell the pupils we write the answer as 12cm ² . Tell them the rule for				
Tell them to count the squares in the top row (this is the length), ie: 4.	finding the area is to multiply the length by the breadth, ie: I x b.			bredatn 2 cm	
Now count the squares in the first column (this is the breadth), ie: 3.	Write the rule on the chalkboard.				

Lesson title

Numeracy lesson plans Primary 3

Term 3 Asking questions

Week 23 Area of regular shapes Day 5

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Finding the area of rectangles and squares

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Learning outcomes	Daily practice		
By the end of the lesson, most pupils will be able to: Say the 6 times table. Calculate the area of rectangles	Pair task Tell the pupils to use their number lines to count in 6s to find the answer to 4 x 6 (24). Remind them to put their finger		
and squares. Teaching aids Before the lesson: Read MAN Primary Mathematics 3, page 167.	on 0 and jump over 6 numbers to land on 6. Ask them to use a number line to complete the following		
	in their exercise books: - 4 x 9 = 6 x 6 = 7 x 8 =		
Have ready the mouse number lines from Week 21.	-		
Make a set of rectangles for each group measuring: 4cm x 8cm, 6cm x 9cm and 5cm x 7cm.			
Have ready a set of rulers for measuring the cm squares from Day 2.			

15 minutes

10 minutes		25 minutes	MAN Primary Mathematics 3		10 minutes
Introduction		Main	activity		Plenary
Group task		Whole	e class teaching		Pair task
Choose some pupils to explain what area means. Give out the sets of rectangles and ask the pupils how they can find the area of each rectangle, ie: I x b.	Ask them to write the multiplication sum for each rectangle in their exercise books. Let them use a number line to help calculate the answer if they need to.	on the each s Ask th of shap Tell the a spec	ruler to draw a square chalkboard. Make ide measure 10cm. e pupils what kind pe you have drawn. em that a square is ial type of rectangle	Draw a number line to show 10 lots of 10 and to demonstrate that the square's area = 10cm x 10cm = 100cm ² . Explain the problems in MAN Primary Mathematics 3, page 167, Exercise E,	Choose some pupils to explain their answers on the chalkboard.
Tell them to measure the length and the breadth of each rectangle carefully. They can use the cm squares or a ruler.		are eq Ask th can fir	se all the sides ual. em how they id out the area ily I x b, 10 x 10).	questions 1, 4 and 5. Ask the pupils to complete the sums in their exercise books, using a number line or their times tables to work out the multiplication.	

Week 24 Using the four rules of calculation

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Words/phrases

Assessment

Tens Units add addition expand number line subtract minus subtraction take away word problem multiply times multiplication multiplied by divide division How many? How many each? How much altogether? How much left?

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During the lesson, walk round the classroom and ask questions to see if the pupils clearly understand what you have taught them. If not, help them to understand by explaining the idea to them again, or asking other pupils to help them. You may need to use some different examples of the idea.

Lesson title

Numeracy lesson plans Primary 3

Term 3 Asking questions

Week 24 Using the four rules of calculation Day 1

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Problems involving addition

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Learning outcomes

	Duny produce	
By the end of the lesson, most	Whole class teaching	
pupils will be able to:	Show the class the number	
Work out number bonds to 100.	beads and ask the pupils to	
Solve problems using addition.	- count them in Tens.	
	Say a number below 100.	
Teaching aids	Show the pupils how to use the beads to say how many more are	
	needed to make 100.	
Before the lesson:	Part the beads and say:	
Make number beads as shown	⁻ 'There are 45 here, how many	
in the introduction.	more will make 100?'	
Read MAN Primary Mathematics	Count from 45 to the next Ten	
3, page 64.	(50) = 5 and then count in Tens	
	(60, 70, 80, 90, 100) = 5 Tens, which is 50.	
	The answer is 5 + 50 = 55.	
	Repeat with other numbers, eg: 86, 75, 39.	

15 minutes

Daily practice

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10 minutes	25 MAN Primary minutes Mathematics 3		10 minutes
Introduction	Main activity		Plenary
Whole class teaching	Pair task		Whole class teaching
Tell the pupils there are 414 pupils in school A and 394 pupils in school B.	Write the following problems on the chalkboard: 1 Sanni has N425 and	Choose some pupils to explain their answers to the class. Tell the pairs to do	Ask the pupils some simple multiplication questions to answer orally.
Ask them how they can find out how many pupils there are altogether.	 Fati has N380. How much money have they got altogether?' 	some of the sums in MAN Primary Mathematics 3, page 64, Exercise D.	
Ask them which calculation is required, ie: addition.	 2 Tunde buys yams for N350 and rice for N280. How much does he spend altogether? Tell the pupils to draw 	Remind them to use number lines.	
Write '414 + 394 =' on the chalkboard.			
Choose some pupils to help you solve the problem, by expanding the smallest number and using a number line to count on.	number lines in their exercise books to help solve these problems.		

Lesson title

Numeracy lesson plans **Primary 3**

Term 3 **Asking questions**

Week 24 Using the four rules of calculation Day 2

Problems involving subtraction

Learning outcomes By the end of the lesson, most Pair task pupils will be able to: Say some number bonds to 100. Solve problems using subtraction. **Teaching aids** Before the lesson: Make cards going up in 5s from 0—100. Make two cards for 50. If you have more than 20 pupils, make more than one set.

Have ready the number beads.

Learn the song '10 chunky chickens'.

Read MAN Primary Mathematics 3, page 71.

Daily practice

Give each pupil a number card and tell them to find another pupil who has the card that will make 100 when added to theirs.

Ask pairs to say their numbers and write them on the chalkboard.

Choose some pupils to check with the number beads that each pair's numbers add to 100.

Remind the pupils to count off a number and ask how many are remaining.

Tell them to count to the nearest 10 and in Tens as yesterday.

15 minutes

10 Song minutes		25 minutes	10 minutes	MAN Primary Mathematics 3
Introduction		Main activity	Plena	ry
Whole class teaching		Pair task	Whole	e class teaching
Sing '10 chunky chickens' with the class.	Write '565 - 349 =' on the chalkboard.Write the following problems on the chalkboard		of the	e pupils to do some sums in MAN Primary
Ask the pupils to say what calculation is happening	Choose some pupils to help you solve the problem.	and ask the pupils to use a number line in their exercise books to work	Exerci	matics 3, page 71, se A. d them to set the
in the song, ie: subtraction. Write on the chalkboard: 'There are 565 pupils in a school. 349 are girls. How many are boys?'	Expand the numbers to make the subtraction easier. 349 = 300 + 40 + 9. 9 = 4 + 5. The final answer is 216.	out the answers: 1 There are 455 pupils in school A and 229 pupils in school B. How many more pupils are there in	sums out horizontally an use number lines.	
Ask the pupils which calculation is required, ie: subtraction.	$\begin{array}{c} -4 & -5 & -40 & -300 \\ \hline 216 & 220 & 225 & 265 & 565 \\ \hline \end{array}$	school A? 2 I have N770. I spend N235. How much money do I have left?		
		Choose some pairs		

to explain their answers to the class.

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Lesson title

Numeracy lesson plans Primary 3

Term 3 Asking questions

Week 24 Using the four rules of calculation Day 3

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Problems involving multiplication

Learning outcomes **Daily practice** By the end of the lesson, most Whole class teaching pupils will be able to: Shuffle the cards and give one Say some number bonds to 100. to each pupil. Solve problems using multiplication. Tell them to find another pupil who has the card that will make 100 when added to theirs. **Teaching aids** Ask pairs to say their numbers and write them on the chalkboard. Before the lesson: Choose some pupils to check Have ready the 0—100 number with the number beads. cards going up in 5s from yesterday. Remind them to count off a number Read the instructions for and ask how many are remaining. playing the 'Number bonds game' Tell them to count to the nearest in the introduction. 10 and in Tens as yesterday.

15 minutes

kwara-num-3-weeks-21-25-closeout.indd 53

10 minutes		25 minutes		10 minutes	Game
Introduction		Main activity		Plenary	
Whole class teaching		Pair task		Whole	e class teaching
Write on the chalkboard, A pupil needs 3 exercise books. How many books are needed for 26 pupils?' Ask the pupils what calculation is needed to solve this (multiplication). Write '26 x 3 =' on the chalkboard.	Tell them to expand $26 = 20 + 6$.Draw a grid underneath and write 'x 3' by the side.Ask, 'What is 3 x 20?' (60), 'What is 3 x 6?' (18).Write the answers in the grid.	 Write the following problems on the chalkboard and tell the pupils to use the grid method to work out the answers in their exercise books: 1 48 children have 3 pens each. How many pens do they have altogether? 2 There are 27 pupils. 	Choose some pairs to explain their answers on the chalkboard.	a circle 'Numb	r the pupils in e and play the er bonds game' umber bonds to 100.
Remind the pupils of the grid method.	Now add up the 2 answers: 60 + 18 = 78.	They each spend N5.How much money do they spend altogether?3 4 boys have N35 each.How much money do they have altogether?			

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Lesson title

Numeracy lesson plans Primary 3

Term 3 Asking questions

Week 24 Using the four rules of calculation Day 4

Problems involving division

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Learning outcomes	Daily practice		
By the end of the lesson, most pupils will be able to:	Whole class teaching		
Use place value to add numbers in Tens and Hundreds. Solve problems using division.	Write the sum '5 + 4 = 9' on the chalkboard.		
	Ask, 'What will 50 add 40 be?' Tell the pupils that the numbers are now ten times bigger so the answer		
	will be ten times bigger (The 9 has moved to the Tens place value).		
Before the lesson: Write the sums for the daily	Ask the pupils what 500 add 400 will be. This time the 5 and the 4 move to the Hundreds place value		
practice on the chalkboard.	so the answer is 900.		
	Ask them to complete the following sums in their exercise books:		
	4 + 4 =		
	3 + 3 = 2 + 2 =		
	40 + 40 =		
	30 + 30 = 20 + 20 =		
	400 + 400 = 300 + 300 =		
	200 + 200 =		

15 minutes

25 minutes		10 minutes
Main	activity	Plenary
Pair t	ask	Whole class teaching
as you useon theine.1 Mrs0 and count in6 ch36 sjumps of 7d to make 35?'. $7 = 5'$.pils the other wayision problems isciplication tables.mat $35 \div 7$ many groups	each monkey have? e pupils to solve oblems in their se books. em to use a number	Choose one pair to draw a number line to show how they worked one of the answers out. Choose another pair to show how they used multiplication tables.
7 vis ip at 35	$ \begin{array}{l} & 24 \text{ n} \\ & did e \\ & did e \\ & did e \\ & did e \\ & \\ & \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{l} & 24 \text{ n} \\ & did e \\ & \\ \hline \end{array} \\ \hline \hline \\ & \\ & \\ \hline \end{array} \\ \hline \\ & \\ & \\ \hline \end{array} \\ \hline \\ & \\ & \\ \hline \end{array} \\ \hline \\ & \\ \hline \\ & \\ \hline \end{array} \\ \hline \\ & \\ \hline \\ & \\ \hline \end{array} \\ \begin{array}{l} & 24 \text{ n} \\ & \\ & \\ \hline \end{array} \\ \hline \\ & \\ & \\ \hline \end{array} \\ \hline \\ & \\ \hline \\ & \\ \hline \\ & \\ \hline \\ & \\ \hline \end{array} \\ \hline \\ \\ & \\ \hline \\ \\ \hline \end{array} \\ \begin{array}{l} & 24 \text{ n} \\ & \\ & \\ \hline \\ \hline \\ \\ \hline \end{array} \\ \begin{array}{l} & 24 \text{ n} \\ & \\ & \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \hline \\ \\ \hline \\ \\ \\ \\ \hline \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \\ \hline \\$	 24 nuts equally. How many did each monkey have? 25. 24 nuts equally. How many did each monkey have? Tell the pupils to solve the problems in their exercise books. Tell them to use a number line or multiplication tables. 35'. 35'. 5 groups of 7

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Term 3 Asking questions

Week 24 Using the four rules of calculation Day 5

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Choosing calculations for problems

Lesson

title

Learning outcomes **Daily practice** By the end of the lesson, most Pair task pupils will be able to: Ask the pupils, Add numbers in the Tens and 'If 7 + 2 = 9, what will 70 + 20 make?' Hundreds using their knowledge Remind them that 7 is now of place value. ten times bigger and 2 is now ten Choose the correct calculation times bigger so the answer will to solve a word problem. be in the Tens (90). Ask. 'What will 700 add 200 make?' **Teaching aids** Explain that this time the 7 and the 2 are one hundred times bigger so the answer will be in Before the lesson: the Hundreds. Write the sums for the daily Ask the pupils to complete practice on the chalkboard. the following sums in their Write '+', '-', 'x' and '÷' on flash exercise books: cards. Make a set for each group. 10 + 70 =60 + 30 =Write the word problems for the 60 + 20 =main activity on the chalkboard. 400 + 500 =100 + 800 =50 + 50 =400 + 300 =200 + 400 =10 + 50 =500 + 300 =

15 minutes

10 minutes	25 minutes		10 minutes
Introduction	Main activity		Plenary
Group task	Pair task		Whole class teaching
Give out the mathematical symbol cards and ask the pupils what they mean.	Read and explain the following problems on the chalkboard:	Discuss the calculation required for each one, ie: +, -, x or ÷.	Choose some pupils to write their calculations on the chalkboard.
Discuss words for each sign, eg: plus, add, more than, subtract, minus, divide. Say a calculation word, eg: plus, and ask the pupils to hold up the correct card. Repeat, using several different words for each sign.	 Edet has 28 apples and Bola has 35. How many apples have they got altogether? There are 178 pupils in a school. 58 are boys. How many are girls? 24 pupils need 4 exercise books each. How many books are needed altogether? Share 42 apples equally among 6 children. How many do they get each? 	Remind the pupils to use number lines for 1 and 2 and the grid method for numbers 3 and 4. Tell them to write their calculations and answers in their exercise books.	Ask the class if they are correct. If they are not, ask other pupils to help them.

Week 25 Pictograms

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Words/phrases

Assessment

pictogram information bar chart most popular least popular symbol represent list table

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During the lesson, walk round the classroom and ask questions to see if the pupils clearly understand what you have taught them. If not, help them to understand by explaining the idea to them again, or asking other pupils to help them. You may need to use some different examples of the idea. (\bullet)

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Term 3 Asking questions

Week 25 Pictograms Day 1

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Pictograms

Lesson

title

By the end of the lesson, most pupils will be able to:

Say the 6 times table.

Learning outcomes

Interpret a simple pictogram.

Teaching aids

Before the lesson:

Read the instructions for 'Multiplication bingo' and 'Buzz' in the introduction.

Draw the 'Pictogram showing the number of pupils late for school' from the introduction on the chalkboard.

Write the questions for the main activity on the chalkboard.

Daily practice

Game

15

minutes

Whole class teaching

Ask the pupils to say the 6 times table.

Play 'Multiplication bingo' using the 6 times table.

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10 minutes	25 minutes		10 Game minutes
Introduction	Main activity		Plenary
Whole class teaching	Pair task		Whole class teaching
Tell the pupils they are going to learn how to record information.	Look at the following questions on the chalkboard:	Tell the pupils to use the pictogram to answer the questions in their exercise	Play 'Buzz' with the 6 times table.
Show them the pictogram and explain that it is a special graph called a 'pictogram'.	 How many pupils were late on Wednesday? How many pupils were late on Monday? 	books. Ask each pair to tell the rest of the class how they got their answers.	
Tell them each symbol represents one pupil. Discuss what information we can get from the pictogram,	3 On which day were most pupils late?4 Which day had the least number of late pupils?	Discuss who might find this information useful, eg: the Head Teacher, the Education Board.	
eg: how many pupils are late in a week, how many are late on Monday, which is the worst day for pupils being late.		Explain how useful a pictogram is: it is easy to see on which day most pupils are late.	

Ask the pupils to count the number of pupils who came late to school each day.

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Term 3 Asking questions

Week 25 Pictograms Day 2

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Lesson title		15 minutes		
Pictograms	Learning outcomes	Daily practice		
	By the end of the lesson, most	Pair task		
	pupils will be able to:	Do the 'Multiplication tables		
	Say answers to the 2, 3, 4, 5 and 6 times tables quickly.	missing numbers' activity with the class.		
	Draw a simple pictogram.	Choose some pupils to say answers to the 6 times table		
	Teaching aids	as you say it forwards.		
		Repeat, saying the 6 times table backwards.		
	Before the lesson:			
	Read the instructions for			
	'Multiplication tables missing numbers' in the introduction.			
	Have ready the pictogram from yesterday.			

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10 minutes	25 minutes		10 minutes
Introduction	Main activity		Plenary
Pair task	Whole class teaching		Pair task
Remind the pupils that yesterday they learned how to use a pictogram. Ask them what a pictogram	Ask the pupils to choose the colour they like best from red, blue, yellow and green. Write the results on the	Ask the pupils to come and draw the symbols for the other colours. Ask them to copy the	Ask the pupils to say which colour is the most popular. Ask them how many pupils chose the most
is used for.	chalkboard (eg: red = 6).	pictogram in their exercise	popular colour.
Look at the pictogram showing the pupils who were late for school.	Tell them this can also be represented as a pictogram. Draw the grid shown below	books.	Ask them to think of their own questions about the pictogram.
Ask, 'How many pupils were late on Tuesday?', 'When were 5 pupils late?'	on the chalkboard. Draw on the results for red using the symbol		Ask each pair to say a question for the class to answer.
In pairs, ask the pupils to think of their own questions about the pictogram.	$\stackrel{\circ}{\wedge}$ = one pupil.		

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Ask each pair to say a question for the class to answer.

Pupils' favourite colours

red	
blue	
yellow	
green	

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Term 3 Asking questions

Week 25 Pictograms Day 3

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	Pictog

Lesson

title

Pictograms

Pictogram showing how pupils came to school

Car	χ
Taxi	***
Bus	፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟
Walking	$\begin{array}{c} & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $



Daily practice
Whole class teaching Play 'Order the times tables'
using the 6 times table.
Tell the pupils to write the 6 times table backwards in their exercise books (ie: 10 x 6 = 60, 9 x 6 = 54)

Game

Before the lesson:

Teaching aids

Read the instructions for 'Order the times tables' in the introduction.

Draw the pictogram showing how pupils came to school (shown left) on a large piece of card.

Write the sentences for the main activity on the chalkboard.

10 minutes	25 minutes		10 minutes
Introduction	Main activity		Plenary
Whole class teaching	Pair task		Whole class teaching
Tell the pupils to look at the pictograms they drew in their exercise books yesterday.	Write $\stackrel{\circ}{\uparrow}$ = 2 pupils' and ask the pupils to copy this in their exercise books.	Read the following sentences on the chalkboard: pupils came by car.	Choose some pairs to read their sentences to the class.
Ask them what the symbols mean.	Ask the pupils how many they need to draw	pupils came by bus.pupils came by taxi.	
Ask them what the pictogram tells us.	for 4 pupils, 6 pupils and 10 pupils.	pupils walked. The most popular way	
Ask them what the class's favourite colour was and how many pupils chose it.	In their exercise books, ask them to draw the symbols. Show them the pictogram	to get to school is Tell the pairs to use the pictogram to fill in the spaces.	_
	showing how pupils came to school.	Ask them to complete the sentences in their exercise books.	_

Term 3 Asking questions

Week 25 Pictograms Day 4

Lesson liitle		15 minutes 	
Bar charts	Learning outcomes	Daily practice	
	By the end of the lesson, most pupils will be able to:	Whole class teaching Call out the following sums	
	Answer questions from the 6 times table.	and ask the pupils to write the answers in their exercise books:	
	Interpret simple bar charts.	$-4 \times 6 =$ 9 × 6 =	
	Teaching aids	6 x 6 = 7 x 6 = 3 x 6 =	
	Before the lesson:	5 x 6 = 2 x 6 =	
	Copy the bar chart below showing pupils' favourite colours on to a large piece of card.	- 8 x 6 = 10 x 6 = 1 x 6 =	
	Bar chart showing pupils' favourite colours	Discuss the answers and correct them where necessary.	
	6	Ask the pupils to say the 6 and 4 times tables with you.	
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2 1

red

yellow

blue

green

10 minutes		25 minutes	10 minutes
Introduction		Main activity	Plenary
Whole class teaching		Whole class teaching	Whole class teaching
Tell the pupils that some children were asked to name their favourite animals and these are the results.	In their exercise books, ask the pupils to draw the symbol to represent the children for each animal.	Tell the pupils that another way to represent information is to use a bar chart.	Ask the pupils to write the colours and the number of children who liked them in their exercise books,
Write the following results on the chalkboard: 'Goat = 6 children', 'sheep = 8 children',	Ask them to look at the pictograms they have drawn and think of some sentences to say about them, eg:	Show them the bar chart showing the pupils' favourite colours. Tell them that the bars represent the number	eg: red = 6.
'chicken = 4 children', 'lizard = 2 children'. Tell them that $\stackrel{\circ}{\downarrow}$ = 2 children so $\stackrel{\circ}{\downarrow}$ goat = $\stackrel{\circ}{\uparrow} \stackrel{\circ}{\uparrow} \stackrel{\circ}{\uparrow}$	'More children like sheep than goats.' 'The lizard is the least popular.'	of pupils. Ask, 'How many liked red?', 'How many liked yellow?'	
	Ask the pupils to share their ideas with the class.	Ask, 'What was the most popular colour?'	

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Term 3 Asking questions Lesson

Bar charts

title

Week 25 Pictograms Day 5

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15 minutes Learning outcomes **Daily practice** By the end of the lesson, most Whole class teaching pupils will be able to: Say, 'There are 6 cakes in Use the grid method to multiply. a packet. How many cakes are there in 14 packets?' Draw a simple bar chart. Ask the pupils which calculation is needed (multiplication). **Teaching aids** Remind them of the grid method and complete the sum together. Before the lesson: Ask the pupils to use the grid Have ready the bar chart method to work out $15 \times 6 = in$ of the pupils' favourite colours their exercise books.

from yesterday.

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10 minutes	25 minutes		10 minutes
Introduction	Main activity		Plenary
Whole class teaching	Whole class teaching		Pair task
Look at the bar chart of pupils' favourite colours	Write the following on the chalkboard:	Draw a grid on the chalkboard as shown below.	Ask each pair to think of one sentence about the bar
from yesterday. Ask the pupils what are	'pineapples, bananas, oranges, mangoes'.	Choose some pupils to help you shade in the bars.	chart and say it to the class.
the most popular and least popular colours.	Ask the pupils to vote for their favourite fruit.	Ask them to draw the bar chart in their exercise books.	
Ask them how many pupils like blue.	Write the results next to each fruit.		
	-		

Ask them what other way they know to record information, ie: a pictogram.

Pupils' favourite fruit

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10				
9				
8				
7				
6				
5				
4				
3				
2				
1				
	pineapples	bananas	oranges	mangoes

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