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Numeracy
lesson plans
Primary 2
Term 2
Involving pupils in
their learning

## Numeracy lesson plans Primary 2 Term 2 Involving pupils in their learning



The quality of education is a key element to socioeconomic development in any society. Perhaps the most critical element in ensuring quality of education is the teacher. Good teaching methodology, with the right textbooks, will quickly provide a good platform for a quality education system in Kano State.

The challenges are sometimes overwhelming when you have 5,335 schools with over 2.3 million children and 46,643 teachers. The Kano State Ministry of Education carried out a series of baseline surveys to assess classroom teachers, the role of the head teacher and the level of pupil learning outcomes.

The findings in most cases were alarmingly poor, with not much difference between qualified and unqualified teachers with respect to output. The majority of teachers were themselves victims of an education system that was in a serious downward slope.

Following this, the Kano State Ministry of Education, the State Universal Basic Education Board (SUBEB) and local government education authorities (LGEAs), supported by the Education Sector Support Programme in Nigeria (ESSPIN), embarked on a series of reforms that will help strengthen schools.

This work has focused on The lesson plans, however, classroom teaching skills in particular how to make teaching child-centred and the organisational structures needed for SUBEB and LGEA staff to provide effective support and advice to primary schools.
With many school leavers unable to read or write, a specific focus has been on improving the teaching of basic literacy and numeracy. To support this, Kano State has developed a benchmark for assessment and carefully designed literacy and numeracy lesson plans for Primary $1-3$ teachers. These plans provide a step-by-step guide to teachers, while ensuring children become active learners.
are not sufficient. Structures and processes have also been put in place so that teachers are continuously supported by both the State School Improvement Team and the LGEA-based school support officers.
We are sure that within a short time of these lesson plans being introduced, children's learning abilities will improve considerably. The materials will also enable teaching and learning to be more exciting - an important element in all classes, but in particular at the primary level. We are confident that these lesson plans will raise standards and improve the quality of children proceeding to higher levels of education.

We commend all those who have produced these lesson plans and trained our teachers to use them. We offer thanks to the UK Department for International Development (DFID) for its ongoing support to education reform in Kano State through its ESSPIN programme. Let's make every Kano school an improving school. Ifrur
Barister Farouq lya Sambo Honourable Commissioner of Education Kano State

## 

## Wada Zakari

Executive Chairman
SUBEB
Kano State

Numeracy lesson plans Primary 2

Term 2
Involving pupils in their learning

Weeks
11-15

## Introduction

Involving pupils in their learning

## Learning must be an active process on the part of the learner.

## How children learn

These lesson plans provide you with a variety of techniques to make learning faster, fun and more effective. The plans use activities that reflect the way in which pupils naturally learn, and attempt to bring the joy back into learning for children.

Every individual in your class responds to activities differently and learns their own way, but generally children learn best when they:
Have objects to see and hold.
Take part in the lesson.
Can talk to each other to share ideas and learning.
Practise what they have learned individually, in pairs and in groups.

Are given activities that challenge them and make them think.

Receive encouragement and praise.
Realise that making mistakes is an important part of the learning process.

This third set of lesson plans contains lots of activities to encourage learning through different methods.

Numeracy lesson plans
Primary 2

## Term 2 <br> Involving pupils in their learning

> Introduction
> I Essential low-cost or free teaching aids

## Counters

Ask the pupils to help you collect together as many bottle tops, small sticks and small stones as they can. Put them into jars to keep in the classroom and use to help with counting.

11-15

## Hundred square

Ask the pupils to help you collect different shapes from around the local area, eg: Boxes are cuboids.
Tubes and pipes are cylinders.
Balls are spheres.

Make sets of coins and notes by cutting them out of a cardboard carton and writing the correct amounts on them.

A Hundred square can be used to:
Find number patterns.
Identify odd and even numbers.
Help with counting.
Help with addition.
Help pupils see the relationship between addition and multiplication.
Help pupils see the relationship between the multiplication tables.

Hundred squares have lots of patterns. Here are examples of some of them.

Vertical patterns (down): The numbers rise in Tens eg: 1, 11, 21, 31.
Each line is either all odd or all even.

Horizontal patterns (across): Each line follows the pattern odd, even, odd, even.

The Hundred square below shows patterns when counting in twos (bold), fives (thicker frame) and Tens (white boxes).

Hundred square

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

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The clock rhyme<br>Weeks<br>11-15<br>Tick tock, tick tock goes<br>the clock /<br>I know the time, it's o'clock.<br>Months of the year rhyme<br>30 days have September, April, June and November / All the rest have 31, except February alone - 28, and 29 in each leap year.

# Introduction <br> Songs, rhymes and games for the term 

The time song

60 seconds make 1 minute /
60 minutes make 1 hour /
24 hours make one day.

At 6 o'clock I get out of bed and say good morning, good morning to you / At 8 o'clock I go to school, and say good morning, good morning to you / At 10 o'clock we have a break and say good morning, good morning to you /
At 2 o'clock we go back home in the afternoon, in the afternoon / At 5 o'clock we help in the house in the afternoon, in the afternoon /
At 7 o'clock we eat our dinner in the evening, in the evening / At 9 o'clock we go to bed and sleep all night.

There is no school on Saturday
There is no school on Sunday /
Only on Monday, Tuesday, Wednesday, Thursday and Friday /
There is no school on Saturday,
There is no school on Sunday /
So work hard and don't be late.

On Monday I walk
to school /
On Tuesday I run
to school /
On Wednesday I jump
to school /
On Thursday I skip
to school /
On Friday I walk, run, jump and skip to school /
On Saturday I stay
at home /
And on Sunday I stay at home.

One pupil stands with their face against the wall so they can't see the other pupils.

The other pupils stand behind and chant: 'What's the time, Mr Lion?'

The pupil pretending to be the lion turns around to look at the others and shouts a time, eg: 'it's 10 o'clock'.
The others have to stand absolutely still and not move.
The 'lion' then turns around and shouts a different time.

This continues until the lion shouts 'dinner time' and chases the rest of the pupils to try and catch them.
Play the game once
or twice.

Put a selection of shapes in a bag.
Ask a pupil to come out and feel a shape inside the bag, describing what they feel to the rest of the class, without using the name of the shape.

Ask the rest of the class to guess the name of the shape.

Ask the pupil to take the shape out of the bag and see if the class was correct.

Repeat.

Week
11
Numbers 0-999


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Week 11
Numbers 0-999 Day 1
(©)


Sequence the days of the week.
Count from 0-999.

Teaching aids

## Before the lesson:

Have ready a number square with numbers 101-200.
Collect together enough counters for everyone in the class to have about 20 each.
Have ready a set of number cards from 0-9.

Read New Method Mathematics 2, page 4, Exercise A, questions 1-5.

25 minutes New Method Mathematics 2

Introduction Main activity

Whole class teaching
Write '100' on the chalkboard and ask individual pupils to tell you anything they know about it.

Ask each group to look at the number square you have prepared.

## Main activity

## Whole class teaching

Place the number cards face down on your table, giving one pupil the number 1 card to hold.
Ask two pupils to come out and pick a card, then stand together with the third pupil to make a number between 100 and 200.
Ask if anyone can read that number to the rest of the class.

Ask each pupil to find that number on the number square you have drawn.
Repeat with different numbers and continue playing the game until 10 numbers have been identified on the number square.

Ask the pupils to use the number square to read the numbers 101-150 aloud together once.
Then ask one table to read 151-160, another table 161-170, and so on, up to 200.

Ask the pupils what they notice about the numbers between 100 and 200, eg: they repeat 1-99 but have 100 in front of them.

Individual task
Ask all the pupils to complete the number table in New Method Mathematics 2, page 4, Exercise A, questions 1-5.

Plenary

## Whole class teaching

Bring out nine pupils and give each pupil a number card to hold so the rest of the class can see them.
Ask these nine pupils to stand in groups of three and make three, three-digit numbers together.

Ask the class to help
the pupils stand in order, from the smallest to the largest number.

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Primary 2

## Term 2

Involving pupils in
their learning

Week 11
Numbers 0-999
Day 2

## Counting from 0-999

| 10 minutes | $\left\lvert\, \begin{aligned} & 25 \\ & \text { minutes } \end{aligned}\right.$ | $\begin{array}{\|l\|l} 10 \\ \text { minutes } \end{array}$ |
| :---: | :---: | :---: |
| Introduction | Main activity | Plenary |
| Whole class teaching | Pair task | Pair task |
| Ask three pupils to come out and pick a number card from your table and show it to the class. | Give each pair a set of number cards from 0-9. <br> Tell the pupils to take turns to make three-digit | Ask one member of each pair to choose a number between 0 and 200 without saying which number they have chosen. |
| Ask them to stand together to make a three- | numbers and read them to each other. | Tell the other pupil in the pair they have to ask questions to find out what number the pupil is holding, eg: 'Is it more than 10?' 'Is it less than 100?' |
| Ask the pupils to put up their hand if they can read | Ask them to tell their partner what the value of each digit is worth. |  |
|  | Ask them to say what number comes after the number they have made. |  |
| $\overline{R e p e a t ~ f i v e ~ t i m e s . ~}$ |  | Continue until each pupil has had two turns. |
|  | Ask them to say what number comes before the number they have made. |  |

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Week 11
Numbers 0-999
Day 3

## 'More than' and 'less than'

## Learning outcomes

By the end of the lesson, most pupils will be able to:
Identify some events and activities which always take place at a particular time of the year.
Order numbers from 0-999 using the terms 'more than' and 'less than'.


## Before the lesson:

Have a set of Hundreds, Tens and Units and place value cards for each pair.
Have ready 15 number cards, each with a number between 0 and 999 written on them.
Have ready a set of number cards from $0-9$ for each pair.

15
minutes

## Daily practice

## Group task

Say the 'Months of the year' rhyme with the pupils.

Ask them if they can work out how many days there are altogether in June and July. Tell them they can write it down in their exercise books to help them.
Ask if they can work out how many days there are altogether in January and September without using pencil and paper.

Ask them to explain how they worked out the answer.

| $\begin{array}{\|l\|} 10 \\ \text { minutes } \end{array}$ | $\begin{aligned} & 25 \\ & \text { minutes } \end{aligned}$ |  | $\left\lvert\, \begin{aligned} & 10 \\ & \text { minutes } \end{aligned}\right.$ |
| :---: | :---: | :---: | :---: |
| Introduction | Main activity |  | Plenary |
| Pair task | Pair task |  | Whole class teaching |
| Give out a set of place value cards to pairs of pupils. | Ask the pupils to tell you what the terms 'more than' | Ask each pair to answer the following question | Put a pile of number cards on the table and ask a pupil |
| Call out the number 169 and ask each pair to make that number using their place | and 'less than' mean. <br> Ask each pair to write down, as fast as they can, 10 | 'Which number is less than the other?' | and hold it up for everyone to see. |
| value cards | numbers which are 'more | Ask one pupil from each | Ask the rest of the pupils |
| Ask pupils questions to help them understand the | than' 100 and 10 numbers that are 'less than' 100. | pair to come out and draw a circle around the numbers | to guess the answer to the following question: |
| value of each digit. Ask: | Write five pairs of numbers | that are 'more than' or put a square around the numbers | Will the next card be more than or less than this one?' |
| 'How many is the 1 worth?' (100) | between 100 and 999 on the chalkboard. | that are 'less then'. | When the guess has been |
| 'How many is the 9 worth?' (9) | Ask each pair to answer the following question |  | made, ask that pupil to pick the next card from the pile and check. If the class |
| 'How many is the 6 worth?' (60) | for each pair of numbers: 'Which number is more than |  | guessed correctly, the pupil can stay. If they haven't |
| Repeat for different numbers, up to 999. |  |  | guessed correctly, ask them to choose another pupil to come out and choose the next card. |
|  |  |  | Continue until you have a row of about eight cards. |

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Involving pupils in
their learning

Week 11
Numbers 0-999 Day 4 than?

|  | 15 minutes | Game |
| :---: | :---: | :---: |
| Learning outcomes | Daily practice |  |
| By the end of the lesson, most pupils will be able to: | Whole | class |
|  | Play 'What's the time, Mr Lion? from the introductory section. |  |
| Say different times. |  |  |
| Use a number line to answer the question 'How many more than?' |  |  |
| Teaching aids |  |  |
| Before the lesson: |  |  |
| Read through the lesson carefully and make sure you understand it. |  |  |


$|$| 10 |
| :--- |
| minutes |

Introduction
Whole class teaching
Say 10 numbers from
0-999 and ask the pupils
to say a number that is
'more than' each number.

25 minutes

## Main activity

Group task
Show the pupils how to write a number line between two given numbers, eg: 150 and 157.

number line into their exercise book.

Ask each pupil to draw the jumps between the two numbers.

Ask pupils to tell you the number of jumps they made.

When they have given you the answer, explain that 157 is 7 more than 150 .

## Individual task

Ask each group of pupils to draw a number line for each of the following pairs of numbers:
143 and 156
270 and 281 520 and 527

Ask each group to draw the jumps between the two numbers and answer the question,
How many jumps between the numbers?'

Ask a pupil from each group to give an answer using the expression 'more than' as above, eg: ' 156 is 13 more than 143'.

## Plenary

## Pair task

Ask the pupils to tell
the answers to their partner using the phrase 'more than'.

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Primary 2

## Term 2

Involving pupils in
their learning

Week 11
Numbers 0-999
Day 5

How many less than?

| 10 minutes | 25 minutes |  |
| :---: | :---: | :---: |
| Introduction | Main activity |  |
| Whole class teaching | Whole class teaching | Group |
| Say 10 numbers from 1-999 and ask the pupils to tell you a number that is 'less than' each number. | Remind the pupils how to write a number line between two given numbers, eg: 54 and 66. | Ask pupils to work in groups and write a number line for each pair of numbers below. |
|  | In their exercise books, ask them to draw the number of jumps between this pair of numbers starting from the largest number and jumping back to the lowest number. | the jumps between the two numbers and answer the question, 'How many jumps between the two numbers?': 116 and 112 |
|  | Ask them to tell you the number of jumps they made. | $\begin{aligned} & 527 \text { and } 520 \\ & 700 \text { and } 693 \end{aligned}$ |
|  | When they have given you the answer, explain that 54 is 12 'less than' 66. | Ask a pupil from each group to give an answer using the expression 'less than' as above, eg: 112 is 4 less than 116. |




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## Term 2

Involving pupils in
their learning

Week 12
Money
Day 1

## Reviewing money

|  | 15 <br> minutes |
| :--- | :--- | :--- |
| Learning outcomes | Daily practice |
| By the end of the lesson, most <br> pupils will be able to: | Whole class teaching |
| Count from 0—999. | Ask the pupils to stand in a circle. <br> Satween 200 and 300. |
| make up a larger value note. |  |$\quad$| Count around the circle from that |
| :--- |
| number until you reach 300. |

25
minutes


## Whole class teaching

Ask the pupils to tell you anything they know about money and record their ideas on the chalkboard.
Show various coins and notes to pupils and allow them to handle them.

Ask pupils to identify the amount written on each coin and note.

Ask pupils to identify
symbols on the coins and notes that stand for Kobo and Naira.

Ask if they can remember how many Kobo there are in one Naira.

## Main activity

## Group task

Give each group a selection of coins.

Ask them to work out as many different ways as they can to make N1 using their selection of coins.

Remind the groups that they can use each coin more than once.

## Plenary

## Whole class teaching

Ask each group to share their ideas with the rest of the class.

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their learning

Week 12
Money
Day 2

Lesson

## Naira and Kobo

|  | 15 <br> minutes |
| :---: | :---: |
| Learning outcomes | Daily practice |
| By the end of the lesson, most pupils will be able to: | Whole class teaching |
|  | Give a blank card to each pupil and ask them to write a number between 5 and 999 on it. |
| Order numbers from 0-200. |  |
| Explain the relationship between Naira and Kobo. |  |
|  | Choose five pupils to come out and hold up their numbers. |
| Teaching aids | Tell these pupils to stand in order, according to number size. |
| Before the lesson: | Ask the rest of the class to check they are correct. |
| Have ready a blank number card for each pupil. | Tell another set of pupils to come out and repeat the activity. |
| Have ready a selection of Nigerian coins and notes. | Tell all the pupils to stand in groups of five with their number cards. |
|  | Ask them to put their numbers in the correct order, from the highest to the lowest number. |


| $\begin{array}{\|l\|} 10 \\ \text { minutes } \end{array}$ |  | 25 minutes | $\left\lvert\, \begin{aligned} & 10 \\ & \text { minutes } \end{aligned}\right.$ |
| :---: | :---: | :---: | :---: |
| Introduction |  | Main activity | Plenary |
| Whole class teaching |  | Group task | Whole class teaching |
| Give each pupil a Naira note worth up to N100. | Ask the rest of the class to check that those notes | Ask pupils to put all their notes in the middle of the | Ask each group how many answers they found. |
| Select the pupil holding N20 to stand in front of the chalkboard, holding their note so the rest of the class can see. | Repeat three times with different values of notes, up to N100. | table and pick one out. <br> Ask them to identify as many ways as they can of making that amount from Naira notes. | Ask each group to tell the rest of the class one of the sums they made. |
| $\overline{\text { Ask the rest of the class to }}$ hold up their notes. |  | Ask them each to record their answers in their |  |
| Ask someone to point out notes which make up N20, eg: N10 and N10. |  | exercise books. |  |
| Bring the pupils holding those notes to the front and ask them to stand in a line. |  |  |  |

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Involving pupils in
their learning

Week 12
Money
Day 3

Lesson
title

## Values of coins to N1

|  | 15 <br> minutes |
| :--- | :--- | :--- |
| Learning outcomes | Daily practice |
| By the end of the lesson, most <br> pupils will be able to: | Group task |
| Read three-digit numbers and say <br> the place value of each number. | Give each group a set of place <br> value cards. |
| Add two amounts of money. | to take it in turns to make a number <br> using the place value cards. |
| Teaching aids Ask the rest of the group to tell <br> them what that number is and how <br> many Hundreds, Tens and Units <br> it has in it. <br> Before the lesson: Ask them to ask each other <br> questions, eg: <br> for each group.  | 'How many is each digit worth?' |



## Plenary

## Pair task

Ask each pair to compare their answers and help each other work out the correct answer if necessary.

## Numeracy

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## Term 2

Involving pupils in
their learning

Week 12
Money
Day 4

Lesson
title

## Shopping

|  | 15 minutes |
| :---: | :---: |
| Learning outcomes | Daily practice |
| By the end of the lesson, most pupils will be able to: | Pair task |
| Identify Hundreds, Tens and Units in a number. | on the chalkboard: 142, 156, 247, 444, 571. |
| Find the cost of two objects. | Ask the pairs to use their place value cards to make them. |
| Teaching aids Before the lesson: | After each number, ask the pupils to tell you how many Hundreds, Tens and Units are in that number. |
| Have ready a set of place value cards for each pair. |  |
| Collect a selection of items to make a market in the classroom. Put a label on each item with a price below N100 which can be bought with one note, eg: pencil = N10, packet of sweets = N20. |  |
| Make a set of Naira note money cards N5, N10, N20, N50, N100, for each group. |  |


| $\begin{array}{\|l\|l} 10 \\ \text { minutes } \end{array}$ | $\left\lvert\, \begin{aligned} & 25 \\ & \text { minutes } \end{aligned}\right.$ |  | 10 minutes |
| :---: | :---: | :---: | :---: |
| Introduction | Main activity |  | Plenary |
| Whole class teaching | Group task |  | Whole class teaching |
| Show examples of Naira notes to the pupils. | Explain that you have set up a market and that each item | Tell them that you are going to be the market seller. | Ask one or two groups to come out and explain how |
| Ask them to choose one note and say what they might buy for that amount. | Give each group a set of money cards. | Ask each group to send two pupils 'shopping' in the class market. Ask them to | ered |
| Show them two notes and ask, 'Which note is worth more than the other?' | Ask two pupils to come out, choose an item each and hold up the labels for the pupils to see. | buy one item each. <br> Ask each group to use their money cards to work out how much their two items |  |
| Ask them, 'How much are these two notes worth altogether?' | Ask each group to pick out the Naira they will need to buy each item. | will cost and record the sum in their exercise books, eg: N10 + N20 = N30. |  |
| Repeat with a different pair of notes. | Ask them to add the two amounts together and answer the following question, 'How much would these two items cost altogether?' | Ask them to repeat this until they have about 10 sums per group. |  |

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## Term 2

Involving pupils in
their learning

Week 12
Money
Day 5

Lesson
title

## Shopping

|  | 15 minutes |
| :---: | :---: |
| Learning outcomes | Daily practice |
| By the end of the lesson, most pupils will be able to: | Pair task |
|  | Write the following sets of numbers on the chalkboard: 89 and 37 |
| Answer the question 'Which number is greater than?' |  |
| Identify notes needed to pay for an item. | 84 and 21 |
|  | 19 and 65 96 and 58 |
|  | 35 and 72 |
| Teaching aids | Look at 89 and 37 together. Tell the pupils that 89 is 'greater than' 37. |
| Before the lesson: | Ask the pupils to make the numbers |
| Have ready a set of place value cards for each pupil. | using their place value cards. <br> Ask them to tell their partner which |
| Re-label the items in the market | number in each pair is gr |
| so that it will take two notes to pay for them, eg: pencil N15, packet of sweets N40. | Ask the pupils to show their work to the pair sitting next to them and see if they have the same answers. |
| Have money cards ready in the bank and write the dice throw values from Day 3 on the chalkboard. |  |



Week
13
Shapes


## Numeracy

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## Term 2

Involving pupils in
their learning

Week 13
Shapes
Day 1

Lesson

15
minutes
New Method Mathematics 2

| Learning outcomes | Daily practice |
| :--- | :--- |
|  |  |
| By the end of the lesson, most <br> pupils will be able to: | Pair task |
| Recognise Nigerian coins and <br> notes. | Ask the pupils to look at the <br> examples of Naira notes in New <br> Method Mathematics 2, page 91. |
| Identify cubes, cuboids, cylinders <br> and spheres. | Ask them to choose three Naira <br> notes from the picture. |
| Teaching aids | Ask them to say how much these <br> notes are worth altogether and <br> suggest something they could buy <br> with that amount of money. |
| Before the lesson: | Ask each pair to share their ideas <br> with the class. |
| Collect examples of three- |  |

dimensional (3D) shapes, eg: cubes, cuboids, spheres and cylinders.

## Shapes in the environment

## Pair task

Ask the pupils to look at the examples of Naira notes in New Method Mathematics 2, page 91. Ask them to choose three Naira Ask them to say how much these notes are worth altogether and suggest something they could buy with that amount of money. with the class.

## Introduction

## Whole class teaching

Show the pupils the selection of 3D shapes you collected and ask them to identify them.
Take the pupils around the school compound to find as many cubes, cuboids, cylinders and spheres as they can. Don't forget
to look at the shapes
of trees, buildings, furniture and doors.

25 minutes
| 10

Individual task
Ask pupils to draw in their exercise books at least five objects that they have seen.

## Pair task

Ask the pupils to look at each others' drawings and try to guess the names of the shapes their friend has drawn.

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Primary 2

## Term 2

Involving pupils in
their learning

Week 13
Shapes
Day 2

Lesson
title

## Sorting shapes

|  | 15 <br> minutes |
| :--- | :--- | :--- |
| Learning outcomes | Daily practice |
| By the end of the lesson, most <br> pupils will be able to: | Whole class teaching |
| Use the term 'more than' to place <br> numbers in order. | Ask 15 pupils to stand in a straight <br> line, one in front of the other, each <br> holding a number card. |
| Sort 3D shapes according to <br> different criteria. | Ask a pupil to stand in front of <br> a number from 5-8. |
| Teaching aids | Ask the pupil to move five steps <br> forward. |
| Before the lesson: | Ask the rest of the class which <br> number they stopped at. |
| Ask pupils to bring in as many <br> different shaped 3D objects as <br> possible, eg: cylinder, cube, cuboid, <br> sphere, pyramid. | using the term 'more than', <br> eg: 12 is 5 more than 7. |
| Have ready one set of 1—15 <br> number cards. | Ask other pupils to do the same, <br> starting from different numbers. |


| 10 <br> minutes | 25 <br> minutes |  | 10 <br> minutes |
| :--- | :--- | :--- | :--- |
| Introduction | Main activity | Individual task | Whole class teaching |

Numeracy
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Primary 2

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Involving pupils in
their learning

## Week 13

Shapes
Day 3

Lesson

|  | $\begin{array}{l\|l} 15 & \text { Game } \\ \text { minutes } \end{array}$ |
| :---: | :---: |
| Learning outcomes | Daily practice |
| By the end of the lesson, most | Whole class teaching |
| Add two amounts of money together. | Ask the pupils to play the 'Bank' game that you played in Week 12, Day 3. |
| Identify the faces of shapes. |  |
| Teaching aids |  |
| Before the lesson: |  |
| Write the information for the 'Bank' game from Week 12, Day 3 on the chalkboard and collect dice and money cards. |  |
| Put 10 shapes on to the table and cover them with a cloth. |  |
| Bring in enough cardboard boxes (with the tops closed), for one between six pupils. |  |
| Collect crayons, glue, sticky tape, scissors and old bits of coloured paper and string that the pupils can use to decorate the boxes. |  |

## Main activity

Whole class teaching
Explain to the pupils that you are going to remove the cloth and they have 30 seconds to remember everything they can see on the table.
Take the cloth away, give the pupils 30 seconds to look at the objects, then put the cloth back so the objects are hidden.
Ask each pupil to tell the person sitting next to them which objects they can remember.

Uncover the shapes again, then ask the pupils to put up their hands and tell you how many they remembered.

## Group task

## Ask one or two pupils to tell you how they remembered

 the objects.Make it fun! called the face.

Tell the pupils that the flat part of the shape is

Give each pupil a shape and ask them to count the faces on their shape.

Explain that you are going to help them remember that the flat part is called a face.

Put the pupils in groups of six and give each group a cardboard box.
Ask each pupil to draw a face on one side of the box (so there are six faces altogether).

## Whole class teaching

Ask the pupils to show their boxes with the faces on to the rest of the class.

Numeracy
lesson plans
Primary 2

## Term 2

Involving pupils in
their learning

Week 13
Shapes
Day 4

Lesson
title

## Counting edges and faces

15
minutes

Learning outcomes

By the end of the lesson, most pupils will be able to:
Count the number of faces and edges on each shape.
Record findings in a simple table.
Use a number line to add two,
two-digit numbers.

## Teaching aids

## Before the lesson:

Write the calculations in the daily practice on the chalkboard.

Draw the table on the right on the chalkboard.

## Daily practice

Individual task
Look together at the calculations
on the chalkboard:
$19+16=$
$26+13=$
$22+25=$
$47+19=$
Remind the pupils how to add using a number line.

Ask the pupils to answer the questions in their exercise books.

| Shape | Square | Circle | Rectangle | Triangle |
| :--- | :--- | :--- | :--- | :--- |
| Cuboid | 2 |  | 4 |  |
| Cylinder |  |  |  |  |
| Pyramid |  |  |  |  |
| Cube |  |  |  |  |


| 10 minutes | 25 minutes |  | $\left\lvert\, \begin{aligned} & 10 \\ & \text { minutes } \end{aligned}\right.$ |
| :---: | :---: | :---: | :---: |
| Introduction | Main activity |  | Plenary |
| Whole class teaching | Whole class teaching | Pair task | Whole class teaching |
| Ask the pupils if they can remember what the flat part of a shape is called. | Show the pupils how to complete the table on the chalkboard, helping | Ask the pupils to count the number of edges on each shape and draw | Ask the pupils to say how many edges they found on each shape. |
| Show them one of their boxes from the previous day and ask them what shape the face is (it should be a square or rectangle). | them to count the different shapes of the faces on each 3D shape. | their own table in their exercise book to record their answers, as shown below. |  |


| Shape | Square | Circle | Rectangle | Triangle |
| :--- | :--- | :--- | :--- | :--- |
| Cuboid |  |  |  |  |
| Cylinder |  |  |  |  |
| Pyramid |  |  |  |  |
| Cube |  |  |  |  |

## Numeracy

lesson plans
Primary 2

## Term 2

Involving pupils in
their learning

Week 13
Shapes
Day 5

## Faces of shapes

15
minutes

## Learning outcomes

By the end of the lesson, most pupils will be able to:
Add and take away money, using the correct notes.

Count the number of corners, faces and edges on each shape.

## Teaching aids

## Before the lesson:

Read New Method Mathematics
2, page 110.
Collect 10 items from the previous week's shopping corner and label them with a price.

## Daily practice

## Whole class teaching

Sit the class in a circle, give one pupil three or four Naira notes and spread the rest in the middle of the circle.
Ask that pupil to count the money and say, eg:
'I have 25 Naira, l'm going to take away a N5 note, so l'm going to give you N20'.
Ask them to put the note they have taken away into the middle of the circle and pass the notes they have left to the next pupil.

Ask the next pupil to do the same thing but change the amount they add or take away.

If they want to add, they should take the note from the middle of the circle so they can hand the correct amount to the next person.
Continue until it has gone all the way around the circle.

| 10 minutes |  | 25 minutes | New Method Mathematics 2 | 10 minutes | Game |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Introduction |  |  |  | Plenary |  |
| Whole class teaching |  | Individual task |  | Whole class teaching |  |
| Ask one of the pupils to come out to the front and think of a shape, but not tell anyone which one they are thinking of. <br> Tell the other pupils that they are going to ask questions to find out which shape the pupil is thinking of but they: <br> Can only ask questions for which the answer is 'yes' or 'no'. <br> Can't have a direct guess until three questions have been asked. | They might ask questions such as: <br> 'Is one of the faces a square?' (this game can be played in the pupils' local language). <br> Allow pupils to ask questions until the shape has been guessed and then ask another pupil to come out and think of a shape. | Ask the pupils to look at the picture in New Method Mathematics 2, page 110. <br> Tell them to choose three or four shapes from the picture and draw them in their exercise books. |  | Play 'What's in the bag' |  |

Week
14
How many more than?


## Numeracy

lesson plans
Primary 2

## Term 2

Involving pupils in
their learning

Week 14
How many more
than?
Day 1

## Using a number line



By the end of the lesson, most pupils will be able to:
Classify objects according to shape and size.

Explain how to add together twodigit numbers.

## Teaching aids

## Before the lesson:

Remind yourself how to add two-digit numbers together using a number line.

## Daily practice

## Group task

Tell pupils to go around the school grounds and draw as many different shaped objects as they can find.

Ask the pupils to label the different shapes they have drawn.

Tell them to group the shapes so that each object in the group has something the same about them.

Ask the pupils to count the total number of objects in each group and explain how they sorted them.

## Introduction

Pair task
Ask each pair to draw a 20-30 number line.
Ask the pupils to look at their number line and take it in turns to ask each other questions about numbers from 20-30, eg:
'What number comes after...?'
'What number comes before...?'

Choose a number on the number line and ask the pupils to try and guess your number by asking you questions in the same way.

25
minutes

## Plenary

Whole class teaching
$\overline{\text { Ask the pupils if they notice }}$ anything about the answers.

## Numeracy

lesson plans
Primary 2

## Term 2

Involving pupils in
their learning

Week 14
How many more

## than?

Day 2

Lesson
title

## Using a

number line


By the end of the lesson, most pupils will be able to:
Recognise and name 3D shapes.
Use a number line to answer the question 'How many more than?'

## Teaching aids

Before the lesson:
Put 10 2D and 3D shapes on to a table and cover them with a cloth.
Draw a number line on the chalkboard from 60-80.

15
minutes

| 10 minutes |  | 25 minutes | 10 minutes |
| :---: | :---: | :---: | :---: |
| Introduction |  | Main activity | Plenary |
| Whole class teaching |  | Pair task | Whole class teaching |
| Circle a number on the number line on the chalkboard. | Show them how to work out the answer using a number line, eg: | Ask the following questions in turn for the pupils to work on in pairs. | Tell the class that you are thinking of a number between 1 and 100. |
| Ask each pupil to say any number on the number | 'How many more than 5 is 15 ?' | How many more than: 6 is 19 | Tell them to ask you questions to help them |
| line that is 'more than' the | First, jump to the nearest 10. | 9 is 17 | guess what that number is, |
| er you circled. | Then jump to 15 and | 8 is 18 | less than 50? |
| Ask, | count the number of jumps | 6 is 15 |  |
| 'How many more than?' | you made. | 1 is 12 |  |
|  | Finally add the two jumps together and answer the question: $5+5=10$ | Stop after each question and check that pupils are using the correct method. |  |
|  |  |  |  |
|  | 15 is 10 more than 5. |  |  |

Numeracy
lesson plans
Primary 2

## Term 2

Involving pupils in
their learning

Week 14
How many more
than?
Day 3

How many more than?

Use a number line to answer the question, 'How many more than?'

## Teaching aids

Before the lesson:
Have ready a set of 0-20
number cards for each pair.
Collect a selection of 2D and 3D
shapes and put them in a bag on
your table.


By the end of the lesson, most pupils will be able to:
Name cubes, cuboids, cylinders and spheres.

15
minutes Song

## Daily practice

## Whole class teaching

Sing some number songs.
Play 'What's in the bag?' with a selection of 2D and 3D shapes.

| 10 minutes |  | 25 minutes | 10 minutes |
| :---: | :---: | :---: | :---: |
| Introduction |  | Main activity | Plenary |
| Whole class teaching |  | Pair task | Whole class teaching |
| Ask a pupil to come out, pick a card, read the number and say it aloud to the class without showing it. | Ask pupils to tell you which is the smallest number and which is the biggest number. | Give a set of number cards to each pair. <br> Ask the pupils to use the | Bring out four pupils to stand in pairs. |
|  | Ask them, 'How many more than the smallest number is the biggest number?' | Ask the pupils to use the number cards to repeat the whole class activity. | Give each pupil in the pair a number card from 0-5 to hold, so that the rest of the class can see them. |
| Tell the class to write |  |  |  |
| the number in their exercise books. |  | Ask them to record the method in their exercise books. |  |
| Ask another pupil to come and pick another number. |  |  | Ask the class to add each pair of numbers together without writing them down and say the answer. |
| Tell the pupils to write it in their exercise books. |  |  | and say the answer. <br> Ask them to explain how they did the sum. |

Numeracy
lesson plans
Primary 2

## Term 2

Involving pupils in
their learning

Week 14
How many more
than?
Day 4

Lesson
title
How many more than?

|  | 15 <br> minutes |
| :--- | :--- |
| Learning outcomes | Daily practice |
| By the end of the lesson, most <br> pupils will be able to: | Whole class teaching |
| Explain the features of cubes, <br> cuboids, cylinders and spheres. <br> and you stand in the middle. |  |
| Answer the question, 'How many <br> more than?' | Ask the pupils to walk around in <br> a circle. |
| Teaching aids | Make a simple statement <br> which describes a shape, eg: <br> The shape I am thinking about <br> has four corners.' |
| Before the lesson: | Ask the pupils to continue walking <br> and put up their hand if they can <br> guess the shape you are describing. |
| Draw a number line on the <br> chalkboard, from $15-24$. | Ask the pupil who guesses correctly <br> to come into the middle to describe <br> a shape for the others to guess. |


| 10 minutes |  | $\left\lvert\, \begin{aligned} & 25 \\ & \text { minutes } \end{aligned}\right.$ | 10 minutes |
| :---: | :---: | :---: | :---: |
| Introduction |  | Main activity | Plenary |
| Whole class teaching |  | Pair task | Pair task |
| Show the pupils the quick way to answer the question, 'How many more than 15 is 24?' | Add the number of jumps together: $5+4=9$. <br> Answer the question: 24 is 9 more than 15. | Give the pupils the following pairs of numbers and ask them to use the above method | Ask the pupils to compare answers with each other and help each other if they got anything wrong. |
| Using the number line on the chalkboard, start at 15 and jump to the nearest 10. |  | to answer the question, 'How many more than?': <br> 25 and 17 <br> 24 and 16 |  |
| Jump to the next number |  | 13 and 22 |  |
| and count how many jumps |  | 15 and 22 |  |
| you have made. |  | $\begin{aligned} & 18 \text { and } 15 \\ & 19 \text { and } 21 \end{aligned}$ |  |

## Term 2

Involving pupils in
their learning

Week 14
How many more
than?
Day 5
leek 14

Lesson
title
How many more than?

|  | 15 <br> minutes |
| :--- | :--- |
| Learning outcomes | Daily practice |
| By the end of the lesson, most <br> pupils will be able to: | Whole class teaching |
| Put the different shaped objects on <br> squares and circles in <br> common shapes. | ysk one pupil to come out and pick <br> out an object which has a square, <br> rectangle, triangle or circle as one <br> of its faces and ask the rest of the <br> pupils which shape they can see. |
| Use a number line to answer the <br> question, 'How many more than?' |  |
| Teaching aids | Repeat this activity four times, with <br> other pupils. |
| Before the lesson: |  |
| Collect a selection of different <br> shaped objects. |  |


| $\left\lvert\, \begin{aligned} & 10 \\ & \text { minutes } \end{aligned}\right.$ | 25 minutes | 10 minutes |
| :---: | :---: | :---: |
| Introduction | Main activity | Plenary |
| Group task | Individual task | Pair task |
| Give each group a number between 0 and 30 and ask them to make up three questions using that number which start, 'How many more than?' | Ask the pupils to answer the questions on the chalkboard in their exercise books, drawing number lines to help them. <br> Ask pupils to explain how | Ask the pupils to say something that they have learned during this week. |
| Tell them not to work out the answer at this stage. | they completed the sum. |  |

Week
15
Fractions


## Numeracy

 lesson plansPrimary 2

## Term 2

Involving pupils in
their learning

## Week 15

Fractions
Day 1

Lesson

## Halving numbers



By the end of the lesson, most pupils will be able to:
$\overline{\text { Count forwards in twos, fives and }}$ Tens using a Hundred square.

Identify one half of different numbers of objects.

## Teaching aids

## Before the lesson:

Have ready a Hundred square for each pair and collect enough counters for each pair to have 20.
Use the Hundred square at
the start of this booklet to look at number patterns.

15
minutes

| 10 minutes | 25 minutes |  | 10 minutes |
| :---: | :---: | :---: | :---: |
| Introduction | Main activity |  | Plenary |
| Whole class teaching | Pair task |  | Whole class teaching |
| Bring 20 pupils out to the front and count them. | Give each pair 20 counters and ask them to count them. | Ask one or two pairs to explain how they worked | Ask the pupils if they notice any pattern in their |
| Ask them to divide themselves into two equal groups and count the size of each group. | Ask them to divide the counters into two equal piles and tell you how many are in each pile. | out their answer. <br> Give them the following to complete in their exercise books: | answers, ie: the numbers should get larger in ones. |
| Explain to them that you have divided the number by half. | Explain to them that they have divided one pile of counters in half, | $\begin{aligned} & \frac{1}{2} \text { of } 8= \\ & \frac{1}{2} \text { of } 10= \end{aligned}$ |  |
| Repeat three times with different numbers of pupils, eg: 6, 10, 8. | which can be written as $\frac{1}{2} \text { of } 20=10$ | $\frac{1}{2} \text { of } 12=$ |  |
| Ask the pupils to predict the number that will be in each | ie: they have divided one pile of 20 counters into two equal piles of 10 . | $\frac{1}{2} \text { of } 14=$ |  |
| group before you divide them in half. | Give the class the following to do in pairs, using the counters: | $\frac{1}{2} \text { of } 16=$ |  |
|  | $\frac{1}{2} \text { of } 4=$ |  |  |
|  | $\frac{1}{2} \text { of } 6=$ |  |  |

Numeracy
lesson plans
Primary 2

## Term 2

Involving pupils in
their learning

## Week 15

Fractions
Day 2

Lesson
title

15
minutes

## Halving objects



By the end of the lesson, most pupils will be able to:
Use a Hundred square to count in twos and fives from different starting points.
Identify half of a shape and label it.
Write the term $\frac{1}{2}$

## Teaching aids

## Before the lesson:

Find one orange and something to cut it with.

Find some bananas, enough for one between six pupils.
Cut squares of paper out of newspaper.
Have ready a Hundred square for each pair and collect some counters.

## Daily practice

## Whole class teaching

Ask the pupils to count in twos following the numbers on their Hundred square with their fingers.
Ask them to count in twos starting from the number 1 and in fives starting from the number 3 .
Tell the pupils to count backwards aloud in Tens, twos and fives, starting from 100.
Ask them if they can notice anything about the way the numbers are arranged on the Hundred square.
Tell them to look, horizontally (across), vertically (down) and diagonally.

| $\begin{array}{\|l\|l} 10 \\ \text { minutes } \end{array}$ |  | $\begin{array}{\|l\|l} 25 \\ \text { minutes } \end{array}$ |  |
| :---: | :---: | :---: | :---: |
| Introduction |  | Main activity |  |
| Whole class teaching | Pair task | Individual task |  |
| Cut an orange into two equal parts. | Ask the pupils to fold a piece of square paper into two equal parts. | Give out a banana to each group of pupils. | Draw a square and a rectangle on the chalkboard. |
| Ask pupils to compare the size of each part and tell you what the difference is (the pieces are the same size). | Explain that each of these parts is one half. | Tell them to cut it into two equal parts and then draw it in their exercise books, labelling each part $\frac{1}{2}$ | Ask the pupils to copy the shapes into their exercise books. |
| Explain to them that | in words on each part. |  | of each shape, then draw |
| you have cut one whole orange into two equal parts and each part is one half | Explain that one half is written as 1 | Ask the pupils to draw a circle and divide it into two equal parts. | and label both sides as before. |
| of the orange. | 1 one whole <br> - divided into | Tell them to colour half of the circle, then draw and label both sides, eg: |  |
|  | 2 two equal parts | $\frac{1}{2} \frac{1}{2}$ |  |

10 minutes

## Pair task

Ask the pupils to share their work with each other and check that they have labelled the parts correctly.

## Numeracy

 lesson plansPrimary 2

## Term 2

Involving pupils in
their learning

## Week 15

Fractions
Day 3

Lesson
title

## Quarters

 group to make squares and circles with.15
minutes


By the end of the lesson, most pupils will be able to:
Find patterns of numbers in a Hundred square.

Identify a quarter of a shape.

## Teaching aids

## Before the lesson:

Draw a Hundred square on the chalkboard.

Collect enough round plates for each group to have one to draw around to make circles.

Find newspaper for each

## Daily practice

## Whole class teaching

Ask the pupils to look at their Hundred squares.
Tell them to count in Tens, putting counters on the numbers as they go.

Ask one pupil to come out and colour those numbers on the Hundred square on the chalkboard.
Repeat this (without removing the counters they used for counting in Tens), but this time counting in fives. Ask the pupils if they can see where there are two counters on one square.

Ask if anyone can explain this.

| 10 minutes | 25 minutes |  | 10 minutes |
| :---: | :---: | :---: | :---: |
| Introduction | Main activity |  | Plenary |
| Whole class teaching | Group task | Individual task | Pair task |
| Ask the pupils to fold a piece of square paper into four equal parts. | Give each group a round plate and ask them to draw around it to make | Draw a circle, square and rectangle on the chalkboard. <br> Ask the pupils to copy | Ask the pupils to show each other the shapes they have coloured and check that |
| Explain that each of these parts is called a quarter. | four equal parts. | the shapes into their exercise books. | one quarter. |
| Ask them to write 'one quarter' in words on each part of the paper. | Ask them to colour one quarter of the circle they have drawn, eg: | Tell them to colour one quarter of each shape and label the fraction. |  |
| Explain that one quarter is written as $\frac{1}{4}$ <br> 1 one whole |  |  |  |

Numeracy
lesson plans
Primary 2

## Term 2

Involving pupils in
their learning

Week 15
Fractions
Day 4

Finding quarters of a group of objects

By the end of the lesson, most pupils will be able to:
Use a Hundred square to count in fours.

Identify a quarter of a shape.

## Teaching aids

## Before the lesson:

Have ready a Hundred square for each pair and collect counters or stones for the whole class.

Find newspaper to make circles and squares.

Have ready a round plate for each group to draw around to make a circle.

## Whole class teaching

Ask the pupils to look at their Hundred squares.
Tell them to count in fours, up to 100, putting a counter on each number as they say it and leaving the counters in place.
Tell them to repeat the activity, this time counting in twos.
Ask them if there are any numbers where they have two counters on one number.

Ask if anyone can explain this.

| $\left\lvert\, \begin{aligned} & 10 \\ & \text { minutes } \end{aligned}\right.$ | $\begin{aligned} & 25 \\ & \text { minutes } \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: |
| Introduction | Main activity |  |  |
| Group task | Group task |  |  |
| Give each group a piece of newspaper and a round plate. | Give each group 20 counters and ask them to make four equal piles of | Explain to them that they have divided one pile of 20 counters into quarters | Tell them to record their answers by putting counters on the Hundred square. |
| Tell them to draw around the plate to make a circle. | counters, putting one pile in each part of the circle. | (four equal piles of five), which can be written as | Ask if they notice anything about the numbers they |
| Ask them to divide the circle | Ask: | $\frac{1}{4}$ of $20=5$ | have written. |
| into four equal parts and label each part $\frac{1}{4}$ | 'How many counters are in each quarter of the circle?' | Ask each group to do the following in the same way: | Ask if they can finish the pattern up to 100. |
|  | 'How many counters are in one quarter of the circle?' | $\frac{1}{4} \text { of } 4=$ | Ask if they notice anything about the pattern. |
|  | 'How many counters are in two quarters of the circle?' | $\frac{1}{4} \text { of } 8=$ |  |
|  | 'How many counters are in three quarters of the circle?' | $\frac{1}{4} \text { of } 12=$ |  |
|  |  | $\frac{1}{4} \text { of } 16=$ |  |

10
minutes

## Plenary

## Whole class teaching

Ask each group to explain their understanding of finding quarters.

## Numeracy

lesson plans
Primary 2

## Term 2

Involving pupils in
their learning

## Week 15

Fractions
Day 5

Finding three-quarters


By the end of the lesson, most pupils will be able to:
Recognise the relationship between numbers on a number square.

Identify three-quarters of a shape.

## Teaching aids

Before the lesson:
Collect 28 counters for each pair.
Find newspaper and round plates for each pair to make circles.

15
minutes

Daily practice

## Whole class teaching

Tell the pupils to look closely at their Hundred square and tell you everything they know about the pattern of the numbers.
Record their answers on the chalkboard.

Tell them to choose a number to start from, between 1 and 10, and count in twos, Tens, fives and fours from that number, putting counters on the numbers as they go.

Ask if any of the numbers have more than one counter on them.
Ask if any pupils can explain this.

## Main activity

## Pair task

Ask each pair to fold their paper in half and tell you how many quarters there are in each half.
Ask each pair to draw a square in their exercise books, divide it into four equal parts and label each section 1

$$
\frac{1}{4}
$$

Ask them to shade one half of the shape and label it $\frac{2}{4}$

Ask them to shade threequarters of the shape and label it 3

## Plenary

## Whole class teaching

Ask the pupils to tell you everything they know about $\frac{1}{2}$ and $\frac{1}{4}$
and record their ideas on the chalkboard, making sure they are correct.

## Credits

In 2008, Kwara State carried out a Teachers' Development Needs Assessment for all primary school teachers. This showed that most teachers in Kwara State did not have strong literacy and numeracy skills. The Kwara State Government responded by developing a strategy to support existing teachers and improve new teachers' pre-service training.
These literacy and numeracy lesson plans, developed by the Kwara State School Improvement Team, were part of that strategy. Two years after introducing these plans alongside the training and support programme, Kwara State began to see strong improvements in teachers' teaching skills and pupils' learning outcomes.

Special thanks go to:

The Honourable Commissioner and staff of the Kwara State Ministry of Education and Human Capital Development, as well as the Kwara State Universal Basic Education Board for their support and valuable input and for agreeing to share these plans with other states.

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Thanks also go to the teachers of Kwara State who have used these plans to bring about change in their classrooms.


