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Type of lesson plans/ Grade

Learning theme

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Numeracy lesson plans Primary 1

Term 1 Creating an effective learning environment

Weeks 1—5 Numeracy lesson plans Primary 1 Term 1 • Creating an effective learning environment

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This is the first in a series of six numeracy lesson plan publications, designed to be used throughout the three academic school terms.

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Introduction

Teacher training remains a key element in improving schools and increasing learning outcomes. Where teachers are not supported, there may be high rates of teacher absenteeism. pupil drop out and apathy from parents. Jigawa State Ministry of Education, Science and Technology and the State Universal **Basic Education Board** (SUBEB) are working with the UK Department for International Development (DFID) and Education Sector Support Programme in Nigeria (ESSPIN) to increase the capacity of teachers and school heads to be effective and accountable.

Following the 2010 Teacher Development Needs Assessment, we collectively embarked on a series of reforms to strengthen teacher quality and school leadership. This work has focused on how to make teaching child-centred, and the organisational structures needed to improve service delivery.

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These lesson plans are not designed to replace professional teachers' preparations. They address gaps in linking theory and practice and focus on improving pupils' literacy and numeracy through a step-by-step guide for teachers, while ensuring children that become active learners. Alongside the plans, new structures and processes ensure that teachers are continuously supported by both the State School Improvement Team (SSIT) and the LGEA-based school support officers (SSOs).

I am confident that with correct implementation and targeted support, these lesson plans will raise standards and improve the quality of teaching and learning outcomes.

The Ministry of Education, Science and Technology appreciates all those who have worked hard to produce these lesson plans and train our teachers to use them. Specifically, I offer thanks to DFID for its ongoing support through the ESSPIN programme.

Professor Haruna Wakili

Honourable Commissioner, Ministry of Education, Science and Technology, Jigawa State

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Term 1 Creating an effective learning environment

Introduction Creating an effective learning environment

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Weeks 1—5

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An effective learning	2	3	4
environment	Build good relationships	Use classroom space	Display
<text><section-header><text></text></section-header></text>	 Learn all your pupils' names and use them frequently. Find out about your pupils' lives and interests by listening to them and asking questions. Greet them individually in the mornings and encourage them to greet and talk to each other. Tell them about yourself and your family. Pupils love finding out that teachers are 'human' too! Notice when pupils are unhappy and make an extra effort to be friendly to them. Smile and make learning fun for the pupils. Praise and encourage pupils for effort and achievement, instead of punishing them for 'laziness' or getting things wrong. Shouting and treating your pupils harshly, or beating them, will affect them emotionally and make them unable to learn. 	 Arrange the seating in different ways. Look at the photo- graphs in some of the lesson plans to help you think of different ways of working. U-shaped formations mean all the pupils can see each other and there is a space in the middle for activities. Pushing tables together means that four or six pupils can sit together. If there is no space in your class- room, take the pupils outside to play circle games or do activities. 	Displaying pupils' work is motivating and helps them to remember things they have learned. The activities in these lesson plans encourage you to display pupils' work in different ways.At the start of each week display the key words.5 Teaching aidsThere are lots of suggestions in the lesson plans for making low- and no-cost teaching aids. Making these may take some time, but they can be used more than once and can last a long time if they are made carefully.

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Term 1 Creating an effective learning environment

Introduction Essential low-cost or free teaching aids

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Weeks 1—5

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Counters	Number cards		Shapes	Days of the week
Ask the pupils to help you collect together as many bottle tops, small sticks and small stones as they can. Put each set of counters into a jar to keep in the classroom so they are available when the pupils need them. You should collect enough counters for each pupil to have at least 10. Number lines Make 0—10 and 0—25 number lines out of cut up strips of cardboard.	Make sets of cards numbered from 1—10. Cut up cardboard cartons into squares and write numbers on them. Make a set per pupil so they can use them to play games and help them recognise their numbers. Once the pupils can write their numbers you can give them blank cards and help them make their own set.	Display number cards from 1—20 on a number line string across the class- room so that they are there as a permanent resource. Some teachers have made a number line out of different shapes, eg: hands, feet, buses, goats, boats, etc to make them more interesting for the pupils to look at. Have a number of the week. Display the number on a table in the classroom and ask pupils to help you collect sets of that number of objects and place them in groups by the number.	Use newspaper, the backs of calendars and old cardboard to cut out as many different sized triangles, squares, rectangles and circles as you can.	Make cards of the days of the week and display them on a string across the classroom.Read them with the pupils every day and ask them to find different days.SongsWrite out some of the songs and display them, so that the pupils can see both the numbers and the songs.

Term 1 Creating an effective learning environment

Introduction Songs and rhymes for the term

10 little fingers

1 little,2 little,3 little fingers /4 little,5 little,6 little fingers /7 little,8 little,9 little fingers /10 little fingers,(clap, clap, clap)

Weeks 1—5

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5 little speckled frogs	1, 2, buckle my shoe	10 currant buns	10 green bottles	5 little monkeys
5 little speckled frogs sat on a speckled log / eating the most delicious bugs, yum, yum / 1 jumped into the pool / where it was nice and cool / then there were 4 green speckled frogs, glub, glub.	1, 2, buckle my shoe / 3, 4, knock on the door / 5, 6, pick up sticks / 7, 8, lay them straight / 9, 10, a big fat hen.	10 currant buns in the baker's shop / round and fat with sugar on the top / Along came (sing the name of a pupil) with a penny one day / bought a currant bun and took it away.	10 green bottles standing on the wall (x2) / If 1 green bottle should accidentally fall / There'd be 9 green bottles standing on the wall / 9 green bottles standing on the wall	5 little monkeys jumping on the bed / 1 fell off and bumped his head / Mummy called the doctor, The doctor said / 'No more monkeys jumping on the bed'.
 4 little speckled frogs 3 little speckled frogs 2 little speckled frogs 1 little speckled frog 		9 currant buns 8 currant buns 7 currant buns 6 currant buns 5 currant buns 4 currant buns	(Repeat until no more bottles are left standing.)	4 little monkeys 3 little monkeys 2 little monkeys 1 little monkey

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Week 1 Counting from 1—5

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Words/phrases	Writing numbers	Assessment
one two three four five more less What day is today?	To write each numbers start at the dot and follow the direction of the arrow without taking the pencil off the paper. When there are two dots it means that the pencil needs to leave the paper to finish the number.	Assessment 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.

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		15 Song minutes
rting objects	Learning outcomes	Daily practice
	By the end of the lesson, most pupils will be able to:	Whole class teaching Write the names of the days
	Sort and classify a number of objects in a group.	of the week on the chalkboard and read them to the pupils.
	Use fingers and number cards to count 1—5.	Ask the pupils: 'Does anyone know which day it is today?'
	Teaching aids	Sing '10 little fingers' with the pupils.
	Before the lesson:	
	Collect sets of different objects to be counted. Make sure there is more than one of each object.	
	Write the numbers 1—5 clearly on the chalkboard.	
	Make number cards 1—5, one set for each group.	

Numeracy lesson plans Primary 1

Term 1 Creating an effective learning environment So

Week 1 Counting from 1—5 Day 1

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10 minutes	25 minutes		10 minutes	
Introduction	Main activity		Plenary	
Whole class teaching	Group task		Whole class teaching	
Ask the pupils to count out loud the number of fingers they have on each hand, and the number of toes they have on each foot,	Ask one pupil from each group to come and collect the sets of objects you prepared before the lesson.	Give each group a set of number cards from 1—5 and ask them to put the correct number by each group.	Ask pupils if they can count any other objects in the classroom and tell you how many there are, eg: 2 windows,	
counting 1—5 each time. As they count, point to the numbers written on the chalkboard.	Ask pupils to sort them into groups of the same object.	Ask each group questions, eg: 'How many pencils do you have?'	- 1 door, etc.	
	Ask them to touch the objects in each group and count as they touch.	Ask one pupil to say the number and hold up the correct number card.	_	

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Term 1 Creating an effective learning environment

Week 1 Counting from 1—5 Day 2

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Counting

Learning outcomes

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

Use objects to count 1—5.

Group objects.

Recognise written numbers 1—5.

Teaching aids

Before the lesson:

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Write the days of the week on the chalkboard.

Have sets of counting objects and number cards from Day 1 ready for each group.

Read Macmillan New Primary Mathematics 1, pages 1—2.

Daily practice

Whole class teaching

Read the days of the week on the chalkboard to the pupils and ask them to say them with you.

Ask them:

'Does anyone know which day it is today?'

Ask pupils to tell you how many fingers they have on each hand and how many toes they have on each foot.

Ask a pupil to come to the front and lead everyone in counting the fingers on each hand.

Ask pupils to all show you 4 fingers, 2 fingers, 5 fingers, etc.

10 minutes	25 minutes	Macmillan New Primary Mathematics 1	10 Rhyme minutes
Introduction	Main activity		Plenary
Pair task	Group task	Individual task	Whole class teaching
Give each pupil a number between 1 and 5 and	Give each group a selection of different counters.	Macmillan New Primary my shoe' with the	Say the rhyme '1, 2, buckle my shoe' with the pupils, showing them how to use
check they can remember their number.	Ask them to use them to make sets of 1, 2, 3, 4	Mathematics 1, pages 1—2. Talk about the pictures	their fingers while they are saying the rhyme.
Ask all the class to go outside in pairs, count that number of objects, and remember what they have counted, eg: 3 trees.	and 5. Give each group a set of number cards to put with their groups of objects.	and count the objects. Tell pupils to count the sets of objects and draw them in their exercise books.	

When they return, ask them to tell you the groups of objects they found for their number.

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Term 1 Creating an effective learning environment

Week 1 Counting from 1—5 Day 3

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Ordering and counting

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Daily practice Learning outcomes By the end of the lesson, most Whole class teaching pupils will be able to: Tell the pupils the name of the Read the numbers 1—5. day and write it on the chalkboard so they can see. Order numbers 1—5. Take pupils outside and tell them Count from 1—5. you are going to play a game. Tell them to walk around in a space, **Teaching aids** and you shout out a number. Tell them to make themselves Before the lesson: into groups of that number and stand still in their groups. Make a set of number cards 1—5 for each pair. Any pupils who cannot join a group should come to you. Write numbers 1—5 in random End the game outside by saying order on the chalkboard. 'two'. Tell the pupils they will Have ready enough counters for now be working in those pairs, each pair to have five. and take them back inside If possible, collect material for the classroom. sticking number cards to the walls, eg: masking tape.

Game

10 minutes		25 minutes	10 Song minutes
Introduction		Main activity	Plenary
Pair task		Individual task	Whole class teaching
Show the number cards 1—5 to the pupils	Ask the pairs to put the correct number of counters	Give each pupil a number card.	Ask one pupil to lead the class in singing
and ask them to tell you the number.	by each number card. Ask the pairs to put the	Ask them to draw a matching number of	 '10 little fingers'. Ask the pupils to point to the
Give a set of number cards 1—5 to each pair.	number cards in the correct order from 1—5.	objects on to it, eg: balls, leaves, etc.	number cards on the walls as they sing.
Ask each pair to read the numbers on their cards to one another.		Some pupils might have time to complete more than one number	_
Point to a number on the chalkboard and ask		card each. If possible, stick the	_
the pupils to hold up that number so you can see.		number cards with drawings on to a wall or the chalkboard keeping numbers together, eg: all the ones in one place, all the twos in another place, etc.	

Term 1 Creating an effective learning environment

Week 1 Counting from 1—5 Day 4

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Writing

Count 1—5.

Learning outcomes

pupils will be able to:

Write numbers 1—5.

Teaching aids

Before the lesson:

Stick the number cards on to the walls, grouping the same number together.

By the end of the lesson, most

Collect a selection of counters for the pupils to use.

Prepare a sand tray and a 0—10 number line for each group.

Draw the chart opposite on the backs of old calendars/posters, one for each group.

Daily practice

Whole class teaching

Ask the pupils: 'What day is it today?'

Write the name of the day on the chalkboard and read it with the pupils.

Ask the pupils to look around the room and find each number 1—5.

Say the numbers 1—5 in turn and ask them to go and stand by each number as you say it.

If there are too many pupils for the space, half of them should stay seated while the other half move to the numbers, and then change over so everyone gets a turn.

ninutes New Primary Mathematics 1		minutes		minutes
Introduction		Main activity		Plenary
Whole class teaching		Group task		Whole class teaching
Tell all of the pupils to stand in their places and copy	Tell the pupils to open Macmillan New Primary	Give a sand tray to each group.	Ask them to draw a matching number of objects in the bottom row	Say the rhyme '1, 2, buckle my shoe' with the pupils.
vou. Lead them in drawingMathematics 1, page 3.numbers 1—5 in the air withAsk them to touch thevour hands, feet, head, etc.numbers from 1—5 and	Ask them to take turns to use their fingers to write	of their group's chart.		
Remember to stand with	count the objects next to	1—5 in the sand trays.	hber lines to help them. w he p	
your back to the class so that you draw the numbers the correct way round.	the numbers.	Give each group a number chart like the one below and ask them to write the		
Ask pairs to use their fingers to draw the numbers 1—5 on the back of their partner, saying them out loud as they draw.		numbers 1—5 in the top row. Each pupil should write at least one number.		

Number chart



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Term 1 Creating an effective learning environment

Week 1 Counting from 1—5 Day 5

More

Learning outcomes

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

Know and use the term 'more'.

Identify groups with 'more' in.

Teaching aids

Before the lesson:

Collect different objects for counting.

Have a set of number cards from previous lessons for each group.

Have ready a set of number cards 1—5 for each group.

Daily practice

Rhyme

Whole class teaching

Say the names of the days of the week and ask the pupils to say them with you.

Ask them: 'What day is it today?'

Say each day of the week and ask them if they can tell you one thing they did on that day this week.

Teach the pupils the words and actions to '5 little monkeys.' ۲

10 minutes		25 minutes	Macmillan New Primary Mathematics 1	10 Rhyme minutes
Introduction		Main activity		Plenary
Whole class teaching		Pair task	Individual task	Whole class teaching
Ask one pair to come to the front.	Repeat with different pupils, this time asking the class - to raise their hands to vote	Give each pair a set of 1—5 number cards and 10 counters.	Ask the pupils to open Macmillan New Primary Mathematics 1, page 4	Say the counting rhyme '1, 2, buckle my shoe' with the pupils.
Give one pupil five objects and the other one object.	for who they think has more than the other.	Ask them to place the	- and count the number of objects in each box.	_
Tell them to decide which of them has more than the other.	Ask individual pupils to explain who has more.	cards face down in front of them and each pick one.	Ask them to put a counter over the group of objects — in each box that has more than the box next to it.	
Tell the pupils what they have done, using 'more', eg: 'Abiodun has 5 and Hadiza has 1. Abiodun has more than Hadiza.'	Ill the pupils what theyAsk them to morea group of thata group of thata group of thatof counters andbiodun has 5 and Hadizanumber and theas 1. Abiodun has moreon the table in the	Ask them to make a group of that number of counters and put the number and the counters on the table in front of them.		
		Ask each pair to say which of them has more counters than the other.	_	
		Ask them to repeat the game three times.	_	



Words/phrases

Assessment

circle square rectangle triangle shape side corner sort label

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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 1

Term 1 Creating an effective learning environment

Week 2 Shapes Day 1

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Sorting shapes

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

Count from 1—5.

Learning outcomes

Know and identify squares, rectangles, triangles and circles.

Teaching aids

Before the lesson:

Have ready a pile of counters and number cards 1—5.

Cut out a square, rectangle, circle and triangle for each pupil.

Cut out one large circle, square, triangle and one large rectangle. Write the words 'circle', 'square', 'triangle' and 'rectangle' to label each shape and display them in the corners of the classroom.

Daily practice

Whole class teaching

Sing '10 little fingers' with the class.

Give several pupils a number card each, from 1—5.

Ask other pupils to give the correct number of counters to each pupil holding a number.

Ask pupils with number cards to stand in the correct order from 1—5, holding their cards so everyone can see.

Ask individual pupils to come out and count from 1—5, pointing to each number as they say it.

Repeat with different pupils.

10 minutes		25 minutes	10 minutes	
Introduction		Main activity	Plenary	
Whole class teaching	Group task	Individual task	Whole class teaching	
Give pupils one shape each.	Go to each group in turn	Ask the pupils to return	Take all the pupils outside.	
Ask all of the pupils to go to the place in the classroom where you have put the sign with	and tell them what their shape is called, pointing out where it is written on their sign. Ask them to	to their places and draw a circle, a square, a triangle and a rectangle in their exercise books.	Ask them to move around, and when you call 'freeze' they must stop, listen and then each make the shape that you call using their bodies. Practise by asking them to each make a circle with their body, eg: by holding their arms in a circle. Call out the different shapes giving the pupils enough time to form each shape.	
their shape.	repeat their shape's name back to you and ensure	Ask any pupils who finish quickly to try and write the names of the shapes next to their drawings.		
When they have all found their shape, allow them to compare the shapes they have and check they are standing in the	they can all say it. Help the pupils to stand in groups of four so that there is one circle, one square, one triangle			
correct place.	and one rectangle in each group.	_		
	Ask the pupils in their groups to tell one another what their shapes are called.		Once the shape is made, tell them to move around again before calling out	
	Ask them to make sure that everyone in their group can say the different shape names.	_	the next shape.	

Term 1 Creating an effective learning environment

Week 2 Shapes Day 2

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Counting

Learning outcomes

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

Count from 1—5.

Sort similar shapes.

Teaching aids

Before the lesson:

Have ready number cards 1—5.

Have ready enough counters for each pupil to have five.

Prepare sets of cut-out squares, rectangles, triangles and circles for each group – as many as possible but at least 10 shapes in each set. They do not have to be the same size.

Daily practice

Whole class teaching

Give each pupil five counters.

Ask two pupils to come to the front.

Shuffle the number cards and ask one pupil to pick one of them and hold it up so everyone can see it.

Ask the other pupil to read out the number, and draw it in the air with their hand.

Ask the rest of the pupils to make a group of that number of counters.

Repeat with at least three more pairs of pupils.

10 minutes	25 minutes	10 minutes	
Introduction	Main activity		Plenary
Whole class teaching	Group task	Individual task	Pair task
Bring out the different shapes and ask pupils to call out their names.	Give each group a set of mixed up shapes and ask them to sort them into	Ask the pupils to draw different sized circles, squares and rectangle	Ask pairs to tell each other about some squares, rectangles or circles that
Ask the pupils to identify the shapes of some objects in the classroom, eg: windows, door.	 groups by shape. Groups that finish quickly can try to sort each set of shapes by size. 	shapes in their books. -	they see every day around school and home. If there is time, ask for examples of each shape to be shared with the whole class.

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Lesso title

Numeracy lesson plans Primary 1

Term 1 Creating an effective learning environment

Week 2 Shapes Day 3

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Counting sides and corners on a shape

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Learning outcomes	Daily practice	
By the end of the lesson, most	Group task	
pupils will be able to:	Lead the class in singing	
Order numbers from 1—5.	'10 little fingers'.	
Identify the number of sides	Give each group a set of number cards from 1—5 and	
and corners on different shapes.	20 counters.	
Teaching aids	Tell the class that you are	
	looking for the first group to	
Before the lesson:	put their number cards in the correct order.	
Have ready number cards	Ask them to place the correct	
from 1—5 and 20 counters for	number of counters on each	
each group.	number, and check they have th	
Have ready the cut-out shapes	- numbers in the right order.	
from Day 1.		
Write the words 'side' and 'corner'		

10 minutes		25 minutes		10 minutes	
Introduction		Main activity		Plenary	
Group task		Pair task	Whole class teaching	Whole class teaching	
Explain that a <mark>side</mark> is one line or edge of a shape.	Ask a group to share their results, and ask if the other groups agree.	Explain that a <mark>corner</mark> is where two sides meet.	Show the class a circle, and ask if anyone can say - how many corners it has.	Ask the class if any of them can tell you one thing that is the same and one	
Show the class a side on a shape, and ask them to say the word with you.	and ask them he word with you.Ask for one person to take a number card and place it by the correct shape, according to how many sides it has, eg: the number 3 will be placed by the triangle.	Show the class a corner on a shape and ask them to say the word with you.	Agree that a circle doesn't have any corners.	 thing that is different about a square, a rectangle and a triangle. 	
Give each group a square, a rectangle, a triangle and a circle.		Ask each pair to look at either a square or a rectangle, and count the number of <mark>corners</mark> .			
Ask them to use their fingers to count the number of <mark>sides</mark> on each shape.		Ask pairs to share their results with another pair, and to all agree on the number of corners on both squares and rectangles.			

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Term 1 **Creating an** effective learning environment

Week 2 **Shapes** Day 4

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Drawing and labelling shapes

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Learning outcomes	Daily practice
By the end of the lesson, most pupils will be able to: Write numbers 1—5. Draw squares, rectangles, triangles and circles. Know the words square, rectangle, triangle and circle.	Whole class teachingTeach the class '5 littlespeckled frogs' and show themthe actions.Call out random numbersfrom 1—5 and ask the pupils towrite that number in their exercisebooks and hold it up for every-one to see.
Teaching aids	
Before the lesson:	
Draw a square, rectangle, triangle and circle on the chalkboard. Write the name next to each shape.	

Song

10 minutes		25 minutes	10 minutes
Introduction		Main activity	Plenary
Whole class teaching		Group task	Whole class teaching
Take the pupils outside and divide them into three groups.As is the by together and make the shape you call out.	Ask what the difference is between the shapes. Help the pupils understand by walking along and counting the sides of the rectangle, the sides of the square and the sides of the triangle.	Draw a large rectangle with a stick in the sand. Ask the pupils, one at a time to run around the shape, calling out '1, 2, 3, 4' as they reach each corner or complete each side. While you are outside, ask the groups to collect a selection of sticks, stones and leaves. Take the class back inside, and tell them to work	Whole class teaching Ask the class if anyone can tell you anything they know about a square. Help them to do this, reminding them about the number of sides and corners, and the length of the sides. Repeat the exercise for rectangles and circles.
		in small groups. Ask each group to use the objects they have collected to make a square, a rectangle, a triangle and a circle.	

Term 1 Creating an effective learning environment

Week 2 Shapes Day 5

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Working with shapes

Learning outcomes

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

Recognise numbers 1—5.

Identify and use shapes confidently.

Teaching aids

Before the lesson:

Have as many squares, rectangles, triangles and circles of different sizes cut out as possible. There should be at least one of each shape for each pupil.

Draw a simple picture on the chalkboard using just these shapes, such as a car.

Next to your drawing, write how many of each shape you have used.

Daily practice

Whole class teaching

Sing '5 little speckled frogs' with the class and do the actions.

Write the numbers 1—5 randomly on the chalkboard.

Ask individual pupils to come out, point to a number and say its name.

Ask pupils to get into groups of that number.

If there are any pupils left over, ask them to stand in a separate group and point to the number in their group on the chalkboard.

Repeat three or four times, using different numbers.

10 minutes	25 minutes	10 minutes
Introduction	Main activity	Plenary
Whole class teaching	Pair task	Whole class teaching
Show the class your picture and ask them what it looks like.	Explain that each pair will be making their own picture using the simple shapes.	Ask the pupils questions about shapes, eg: 'Who can tell me which
Explain that it is made from simple shapes.	Give out the shapes to each pair.	– shape has three sides?'
Ask pupils to come up and show you the different shapes in the picture and say their names.	Ask them to make a picture of something simple, eg: a house or a face, by arranging the shapes.	
	When they have made their pictures, ask them to count how many of each shape they have used.	
	Invite the pupils to carefully walk around the classroom to look at one another's pictures.	

Week 3 Counting from 6—9

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Writing numbers

Assessment

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six seven eight nine more than less than number lines How many more than? How many less than? To write each number start at the dot and follow the direction of the arrow without taking the pencil off the paper.

When there are two dots it means that the pencil needs to leave the paper to finish the number. 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.

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Lesson title

Numeracy lesson plans Primary 1

Term 1 Creating an effective learning environment

Week 3 Counting from 6—9 Day 1

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Numbers 6 and 7

Learning outcomes

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

Write numbers 1—5.

Count numbers from 1—7.

Read numbers 6 and 7.

Use the term 'more than'.

Teaching aids

Before the lesson:

Read Macmillan New Primary Mathematics 1, page 7.

Write numbers 1—7 on the chalkboard, as large as possible, with their names written underneath in words. Keep them for the week, as you will use them each day.

Daily practice

15 Macmillan minutes New Primary

Mathematics 1

Group task

Ask all pupils to show you their fingers, and use them to count with you from 1—5. Do this once with each hand.

Ask one pupil to come to the front and point to the numbers on the chalkboard as the class counts.

Count 1—5 again, but this time ask one pupil to lead the class in drawing the numbers 1—5 in the air with their fingers, their feet, their heads, their noses etc.

Pupils at the front should do this standing with their backs to the class, so they show them the correct way.

Ask the pupils to look at Macmillan New Primary Mathematics 1, page 7 and ask individual pupils to tell you how many objects are in each group.

10 minutes		25 minutes		10 Song minutes
Introduction		Main activity		Plenary
Whole class teaching		Group task		Whole class teaching
Explain that you will be counting more thanRaise 1 more finger and ask them to do the same.5 today. Ask the class toTell them that this number	Give each group a set of number cards 1—7 and a set of counting objects.	numbers in order fromsuch as '101—7 and put the correctto the numb	Sing a counting song, such as '10 little fingers' up to the number 7.	
show you 5 fingers, and show them 5 of your own fingers.	how them 5 of your the number on the chalk-	Ask them to make one set of six objects and one set of seven objects, and to label them with the cards for 6 and 7.	 number of counters on each number. 	
Raise 1 more finger and to say 'seven' with you.	- to say 'seven' with you.		Ask them to take six counters and five counters and put them in pairs.	
Tell them that this number	you how many 'more than'		Ask them questions, eg:	-
is called 6 and show them the number on the chalkboard. Ask them to	6 this new number is, and then ask if anyone can tell you how many 'more		'How many have you got left over?'	
say 'six' with you.	than' 5 this number is.		'How many more than 5 is 6?'	
Ask if anyone can tell you how many 'more than' 5 this new number is.	Lead the class in counting all the way from 1—7, pointing to the numbers	-		
Ask the class to show you 6 fingers, and show them your own.	 on the chalkboard as you do so, and encourage them to use their fingers. 			

Lesson title

Numeracy lesson plans Primary 1

Term 1 Creating an effective learning environment

Week 3 Counting from 6—9 Day 2

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Numbers 8 and 9

Learning outcomes

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

Write numbers 1—5.

Count numbers from 1—9.

Read numbers 8 and 9.

Teaching aids

Before the lesson:

Write numbers 1—9 on the chalkboard with their names underneath, ie: 'one', 'two', etc.

Have ready sets of number cards 1—9 and 20 counting objects for each group.

Familiarise yourself with the 'Haka' dance (see Daily practice).

Daily practice

Dance

Group task

Tell the class that you will be dancing numbers, in a dance called the 'Haka' from a far away country called New Zealand.

Lead them in putting your right hand on the left side of your head, then left hand on the right side of your head.

Then move your right hand to your right hip, then your left hand to your left hip.

Then move your right hand to your left shoulder, then your left hand to your right shoulder.

Then lift both hands into the air.

Lead them in the dance again, this time saying a number with each hand movement.

10 minutes			25 minutes	10 Dance minutes
Introduction			Main activity	Plenary
Whole class teaching			Group task	Whole class teaching
Explain that you will be counting more than 7 today.	Ask if anyone can tell you how many more than	Ask if anyone can tell you how many more than	Give each group the number cards 1—9 and	Repeat the dance from the daily practice.
Ask the class to show you 7 fingers, and show them	7 this new number is. Ask if anyone can say	8 this new number is, then ask if anyone can tell	a set of objects. Ask them to put the	This time, after both hands are on your shoulders
7 of your own fingers. Raise one more finger	how many more than 5 this new number is.	you how many more than 5 this number is.	numbers in order from 1—9 and put the correct number of counters on each number.	(moves 5 and 6), move your right hand to the right side of your head, and your left hand to the left
and ask them to do the same. Tell them that this	Ask the class to show you 8 fingers, and show	Lead the class in counting all the way from		
number is called 8 and show them the number on the	them your own. Raise one more finger and ask them to do the same. Tell them that 1—9, pointing to the numbers on the chalk- board as you do so and encouraging them to	Ask them to take seven counters and eight counters	- side of your head (moves 7 and 8).	
chalkboard. Ask them to say 'eight' with you.			and put them in pairs.	Then, raise both hands in the air (move 9).
	this number is called 9, show them the number	show you their fingers.	'How many have you got left over?'	Repeat the dance at least
	on the chalkboard, and ask them to say			twice, making sure that all pupils are moving
	'nine' with you.		'How many more than 7 is 8?'	their hands and saying the numbers with you.
			Repeat with different pairs of numbers from 1—9.	

Term 1 Creating an effective learning environment

Week 3 Counting from 6—9 Day 3

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Writing 6—9

Learning outcomes

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

Write numbers 1—9.

Teaching aids

Before the lesson:

Write numbers 1—5 on the chalkboard, and leave space to write numbers 6—9.

Stick number cards 1—9 on to the walls.

Prepare a sand tray for each group.

Prepare a rectangular chart as shown opposite for each group on large pieces of card or paper. If these are not available, draw it on the chalkboard and help the pupils copy it into their exercise books.

Daily practice

Whole class teaching

Tell the pupils that they have to go to the place in the room with the number that you say. Say the different numbers in turn.

Test the pupils by counting the numbers in order once, then mixing the order up.

If there are too many pupils for the space, half of the pupils should stay seated while the other half move to the numbers, and then swap over.

Introduction		Main activity		Plenary
Whole class teaching		Group task		Whole class teaching
Explain that the class will be drawing all of the	Ask pairs to draw numbers 6—9 on each others'	Give a sand tray to each group.	Ask pupils to use pencils to write numbers 6—9 in	Repeat the dance from yesterday's plenary,
numbers they have learned today. Draw numbers 6—9 on the chalkboard.	backs using a finger, saying the numbers out loud as they draw them.	Ask pupils to write 6—9 in the sand trays with their fingers.	 the top row of the chart, leaving the last space blank for next week. 	making sure all of the pupils copy you and say the names of the number
Tell all of the pupils to stand and copy you.		Give each group one of the rectangular charts	- Each pupil should write at least one number in their group's chart.	as they dance.
Lead them in drawing numbers 6—9 in the air		you prepared.	in their group's chart.	
with your hands, feet, head, etc. Encourage them to say the names of the numbers as they draw them.		Ask them to draw a picture of themselves on the back of the chart so they can identify it later.	-	

Number chart



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Term 1 Creating an effective learning environment

Week 3 Counting from 6—9 Day 4

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Making sets of 6—9

Learning outcomes

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

Group objects in sets of 6-9.

Match each group of objects to its correct number.

Teaching aids

Before the lesson:

Have a sand tray ready for each group.

Have ready the number charts from yesterday.

Have ready sets of 30 objects and number cards 1—9 for each group.

Have 0—10 number lines ready for each pupil, or each pair.

Daily practice

Group task

Ask pupils to count around the class, from 1—9. They must each remember the number they said, as this is their group number.

Give each group a sand tray, a set of number cards from 1—9 and 30 counting objects.

Ask each pupil to write their number on the sand tray, supported by the rest of their group.

If needed, help the pupils by leading them in writing the numbers in the air.

As they write the numbers ask the rest of the group to collect that number of objects and put them with their number by the sand tray.

10 minutes	25 minutes	10 Dance minutes
Introduction	Main activity	Plenary
Group task	Group task	Whole class teaching
Make sure each group has a set of 30 objects and number cards 6—9.	Give each group their number chart from the previous day.	Repeat the dance from yesterday's plenary.
Tell them to put the number cards 6, 7, 8 and 9 and their objects in the	Tell them that they will draw a set of objects under- neath each number.	
correct order.	Give pupils 0—10 number lines to help them.	
	Display the number charts around the room.	

Term 1 Creating an effective learning environment

Week 3 Counting from 6—9 Day 5

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Number lines

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

Count using a number line.

Learning outcomes

Teaching aids

Before the lesson:

Have counters ready.

Make a set of large number cards 1—9.

Write 1—9 on the chalkboard.

Whole class teaching Invite nine pupils to stand at the front of the room. Give each one a large number card from 1—9.

Daily practice

Show the rest of the class the objects or counters.

Ask who thinks they can count four objects.

Invite that pupil to come to the front, collect four objects, and stand with the pupil holding 4.

Congratulate them, then lead the rest of the class in drawing a large 4 in the air.

Repeat with the other numbers, but not in order.

10 minutes		25 minutes		10 Dance minutes
Introduction		Main activity		Plenary
Whole class teaching		Whole class teaching		Whole class teaching
Ask the pupils holding the numbers and objects to stand in the correct order, from 1—9.	Ask: 'Who has more objects than him/her?'	Draw a number line on the chalkboard, from 0—10, as below and - bring individual pupils	Ask pupils to answer questions to help them move along the number line in their books, eg:	Repeat the dance from yesterday's plenary.
Step along the line from 2 to 8, asking the pupils to count as you move.Explain that you have made a number line, showing the numbers in order.2 to 8, asking the pupils to count as you move.Bring individual pupils out to walk along the line, saying the numbers as they move.Ask them: 'How many steps have I taken?'Repeat with different numbers, asking pupils to come out and do the stepping.Repeat with different numbers, asking pupils to come out and do the stepping.	2 to 8, asking the pupils to count as you move. Ask them:	out to make jumps with their fingers along it. — Give pupils 0—10 number lines to help them.	'Start at 3 and make 3 jumps with your finger. What number have you landed on?'	
	Ask them to use their fingers to count forwards and backwards along the number line.	 - 'Start at 7 and make 2 jumps with your finger. What number have you landed on?' 		
	_		Give them time to do each task before they put up their hands to answer.	
		Number line	_	

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0	1	2	3	4	5	6	7	8	9	10

Week 4 Counting from 0—10

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Words/phrases

Assessment

zero ten after before

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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.

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Term 1 Creating an effective learning environment

Week 4 Counting from 0—10 Day 1

Zero

Learning outcomes

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

Draw a shape.

Recognise that 'zero' is an empty set.

Order numbers from 0—9.

Teaching aids

Before the lesson:

Have some of the objects from previous weeks ready.

Read Macmillan New Primary Mathematics 1, pages 8—9.

Daily practice

Whole class teaching

Ask pupils to stand up.

Tell the class that you will say the names of some shapes and they must draw the shape with their hands.

Demonstrate by saying 'square' and drawing it in the air with your hands.

Say the names of some two-dimensional shapes, eg: 'rectangle', 'circle'.

10 Rhyme minutes		25 Rhyme minutes	Macmillan New Primary Mathematics 1	10 Dance minutes
Introduction		Main activity		Plenary
Whole class teaching		Whole class teaching	Pair task	Whole class teaching
Lead the class in saying a counting rhyme that goes to zero, eg:	Continue, each time asking a new pupil to come and take an object	Hand out number cards from 1—9 to individual pupils. Ask those pupils to come out and make a number line using their cards from 1—9. Hold up the '0' card and ask if anyone can tell you where it sits on the number line.	Ask pupils to work together to complete Module 6 in Macmillan New Primary	Week 3, but start with both hands folded in
10 green bottles'. Ask a pupil to come out	away and asking how — many are left.		 Mathematics 1, pages 8—9. 	
and stand in front of the class, and give him or her nine objects.Continue until the pupil has no objects left.Explain that 'no objects	Continue until the pupil has no objects left.			
	Explain that 'no objects' is called zero and draw		_	
and take an object from the first pupil, and ask:	a '0' on the chalkboard.			
How many are left?'	Lead the class in drawing a zero in the air with your hand.	Say '5 little monkeys', but this time make it '9 little monkeys' and ask the person holding the number card to sit down when their number is said at the end of a verse, until everyone is sitting down.		

Term 1 Creating an effective learning environment Ten

Week 4 Counting from 0—10 Day 2

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Learning outcomes	Daily practice
By the end of the lesson, most pupils will be able to:	Whole class teaching
	Tell the pupils that you are thinking
Identify simple properties of shapes.	of a shape and they have to try and guess its name, by asking
Order numbers 1—10.	- you questions.
Count to 10.	 Tell them to put up their hand and ask you three questions about a shape, eg:
Teaching aids	'How many sides does it have?'
	After the third question ask
Before the lesson:	if anyone can guess which shape it is.
Have the objects from previous lessons ready in sets of 10.	When they have guessed the shape choose a pupil to think
Write '10' and 'ten' on the chalkboard.	of a shape and answer pupils' questions as above.
Have ready a set of 0—10 number cards for each pair.	Continue until four or five pupils have had a turn.
Read Macmillan New Primary Mathematics 1, page 24.	

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10 Song minutes	25 minutes	Macmillan New Primary Mathematics 1	10 Dance minutes
Introduction	Main activity		Plenary
Whole class teaching	Group task	Whole class teaching	Whole class teaching
Teach the pupils to sing '10 currant buns' and do the actions.	Give out a selection of counters and a set of 0—10 number cards.	Ask the pupils to look at Macmillan New Primary Mathematics 1, page 24.	Do the dance as in yester- day's plenary. This time, for move 9 put your right
Explain that you will be counting 'more than' 9 today.	Ask pupils to count 10 counters and put the number card underneath.	Ask who can tell you which objects are in groups of 10.	 hand high in the air and to the right of your body. Add in move 10, moving
Lead the class by counting up to 9 with your	Ask them to put the cards in order from 0—10.	-	your left hand into the air to the left of your body.
fingers, asking them to show you their fingers as they count.	Ask one of the pair to say a number and the other to put the correct	_	Lead the pupils in the danc at least twice, encouraging them to say the numbers
Raise one more finger and ask them to do the	number of counters on the number.		as they dance.
same. Tell them that this number is called 10 and show them the number	Ask them to continue taking it in turns to do this for 10 minutes	_	

for 10 minutes.

on the chalkboard.

with you.

Ask them to say 'ten'

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Term 1 Creating an effective learning environment

Week 4 Counting from 0—10 Day 3

Writing 10

Learning outcomes

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

Identify properties of shapes.

Write the number 10.

Draw a number line from 0-10.

Teaching aids

Before the lesson:

Prepare sand trays for each group.

Find the number tables 6-9 that each group made in the previous week.

Daily practice

Whole class teaching

Put a selection of shapes in a bag and ask pupils to come out and choose a shape in the bag, and without showing it to the rest of the class, describe the shape.

Ask the rest of the pupils to guess which shape they are describing.

Call out the names of different shapes and ask the class to make those shapes with their fingers. ۲

10 Song minutes	25 minutes		10 minutes
Introduction	Main activity		Plenary
Whole class teaching	Group task	Pair task	Whole class teaching
Sing '10 currant buns' with the class.	Give each group a sand tray.	Ask the pupils to write the number '10' on each	Ask one or two pupils to show their number lines
Demonstrate how to write the number 10 on the chalkboard. Lead the class in writing '10' as large as possible in the air with each hand, each foot, your head, etc.	Ask them to practise writing '10' in the sand tray. Ask each group to find their number chart, which you displayed on the wall in the previous week. Ask them to write the number 10 in the final box, and to draw 10 objects in the box underneath it.	other's backs. Remind the pupils how to draw a number line, by drawing one from 0—10 on the chalkboard. Ask each pair to try and copy the number line from 0—10 in their exercise books, in the way you showed them on Day 1.	to the class. Ask pupils to use their number lines to count from 0—10, making jumps with their fingers.
	If you do not still have the number chart, ask them to write the number 10 in their exercise books		

and draw 10 objects.

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Lesson title

Numeracy lesson plans Primary 1

Term 1 Creating an effective learning environment

Week 4 Counting from 0—10 Day 4

Ordering numbers

Learning outcomes

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

Match a shape to its name.

Order numbers from 0—10.

Write the numbers 0—10.

Teaching aids

Before the lesson:

Have ready a set of number cards from 0—10.

Write the numbers 1—10 on the chalkboard in random order.

Have sand trays for each group.

Daily practice

Whole class teaching

Take the class outside and ask them to each collect a long stick.

Call out the name of a shape and ask them to draw that shape in the ground.

Draw four different shapes in the ground, making sure they are a good distance apart from each other.

Call out the name of one of the shapes and ask the pupils to run to that shape. The last pupil to arrive at the shape is out for one turn.

Repeat four or five times.

10 Rhyme minutes		25 minutes	10 minutes
Introduction		Main activity	Plenary
Whole class teaching		Group task	Whole class teaching
Give 11 pupils a number card from 0—10 and ask them to come and stand at the front in the correct order. Say the rhyme '10 little monkeys' with the class, asking each 'monkey' to sit down at end of their number, until there is only 'zero' left standing.	Ask the class to show you 10 with their fingers. Give them random numbers from 1—10 and ask them to show you that number with their fingers. Call out a number and ask the pupils to put up their hand if they can come and circle that number on the chalkboard.	 Give each group a sand tray. Ask them to draw a 1, and put one object in the sand tray with the number. Ask them to add one more object to the sand tray and then write the number '2' next to it. Ask them to continue this until they reach 10. Make sure all of the pupils have a chance to write a number in the sand tray. 	Ask the pupils if they can tell you anything they know about the number 6, eg: 'I am 6', 'There are 6 children in our family', etc.

Help groups to say the names of the numbers as they write them.

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Term 1 Creating an effective learning environment

Week 4 Counting from 0—10 Day 5

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Number lines to 10

Learning outcomes

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

Identify shapes.

Count along a number line from 0—10.

Count objects from 0—10.

Teaching aids

Before the lesson:

Make 10 large bottle shapes from card and number them from 1—10.

Cut out different sized squares, rectangles, triangles and circles.

Collect 10 counters for each pupil.

String a washing line across the classroom and display the numbers 0—10.

Daily practice

Group task

Give each group a selection of shapes and ask them to make a group picture using those shapes.

Ask them to write down, in the following way the number of each shape they have used in their picture, eg:



10 minutes		25 minutes		10 Song minutes
Introduction		Main activity		Plenary
Group task		Individual task		Whole class teaching
Draw the numbers 0—10 in the air.	Ask them to read out their numbers to the rest	Give pupils 0—10 number lines to use.	Repeat, calling out the numbers in random order,	Ask the pupils to tell you anything they can about
Give each group a set of number cards from 0—10.	 of the class. Ask them questions 	Ask them to use their finger to count from 0—10	until you have said all the numbers from 1—10.	the number 10, eg: 'there are 10 fingers on my hands'.
Take the pupils outside and ask them to place the number cards on the floor in order, and then collect the correct number	 such as: 'Which number comes after 9?' 'Which number comes before 7?' 	along the number line. Give each pupil 10 counters and tell them that you are going to call out a number and they	Move around the class- room and check that each pupil can find the correct number of objects. Ask each pupil to write	Sing '10 green bottles'. Display the 10 bottles you made. As you count down the number of bottles, ask a pupil to come and
of objects to put by each number.	'Tell me a number which is more than 3', etc.	have to make a group of that number.	the numbers 0—10 in order in their exercise books.	take one away.
Ask the groups to look at each other's number lines and check that they have the correct number of objects by the number.	_		Ask them to draw the correct number of objects by each number except zero.	

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Week 5 Flat and solid shapes

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Words/phrases

Assessment

cube cuboid cylinder side corner solid flat sphere roll build tower

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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. ۲

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Term 1 Creating an effective learning environment

Week 5 Flat and solid shapes Day 1

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Identifying solid shapes

Learning outcomesDaily practiceBy the end of the lesson, most
pupils will be able to:Whole class teachingIdentify cubes, cuboids
and cylinders.Sing '10 little fingers' with
the class.Teaching aidsAsk pupils to write as many
numbers as they can in their
exercise books.

Before the lesson:

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Collect examples of cubes (dice), cuboids (a book or box), cylinders (Bournvita tin). You need one object for each group.

Write the names of the shapes on the chalkboard.

10 minutes	25 minutes	10 minutes
Introduction	Main activity	Plenary
Whole class teaching	Group task	Whole class teaching
Show the class the objects you have collected, telling them the names of the shapes as you do so. Ask them to find one difference between the shapes. Ask the pupils to share what they have found with the rest of the class. Tell the pupils the names of the shapes again.	 Give one object to each group and ask them to name the shape from looking at it. Ask each group to say what shape it is. Point to the name of the shape on the chalkboard and read it. Ask each group to go outside and look around for examples of their shape in the school grounds. Explain that they might not find examples of all of them. Bring the groups back, and ask them to share their examples with the class. 	Ask if anyone can think of examples of the shapes from home or elsewhere. Support the pupils to use the objects' names in their answers, pointing to them on the chalkboard and repeating them if necessary.

Lesson title		15 minutes	Dance		
plans Flat and	Solid Learning outcomes	Daily practice			
shapes	By the end of the lesson, most	Whole class te	aching		
ng an	pupils will be able to:	Ask a pupil to le	ad the class		
ve learning nment	Explain some differences between flat and solid shapes.	in dancing numk in Week 3.	oers 0—10 a:		
	Order numbers from 1—10.		Give the pupils 0—10 number lines and tell them to use the		
	Teaching aids	fingers to count	along the line		
<u></u>		Ask the pupils q			
hapes	Before the lesson:	the numbers, eg 'Which number c			
indhea	Stick the square, rectangle,	before?'			
	triangle and circle cards from Week 2 on the chalkboard.	'Which number comes after?'	comes		
	Stick number cards up on the walls, or draw 1—5 clearly on the chalkboard.	Start counting from 1 and count up to 7', etc.			
	Have ready the objects from Day 1.				

10 minutes	25 minutes			10 minutes Plenary	
Introduction	Main activity				
Whole class teaching	Whole class teaching		Group task	Whole class teaching	
Ask pupils to look at the square, rectangle, triangle and circle on the chalkboard.	 Show the class a cube and hold it next to the square on the chalkboard. Remind them of the names of each shape. Ask pupils to tell you any differences they notice between the square and the cube. 	Ask one pupil to hold up another object and name the flat shapes they can see on the object.	Give one object to each group.	Ask the pupils to stand up in their places. Show	
			Ask the groups to look at their objects, name it and draw the different flat shapes they can see on it.	 them how they can draw the shapes in the air. 	
Ask them to remind one another about the shapes.				Lead them in drawing a square, rectangle, triangl and circle in the air and in saying the names of the shapes as they draw them	
Ask different pupils to explain each shape to the class, and support them in explaining clearly what the shapes are.					
	Tell them that the objects are <mark>solid</mark> and the shapes are <mark>flat</mark> .			Using both hands, lead the pupils in making three-dimensional shapes in the air, showing the sides of a cube, cuboid and cylinder.	
	Show the class that the cube has a square on each side, and explain that a solid shape has <mark>sides that are</mark> all flat shapes.				
				Lead them in saying the names of the shapes as they make them.	

Term 1 Creating an effective learning environment

Week 5 Flat and solid shapes Day 3

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Describing solid shapes

Learning outcomesDaily practiceBy the end of the lesson, most
pupils will be able to:Whole class teachingExplain what a cube, cuboid
and cylinder look like.Sing or say a counting song
or rhyme, such as '1, 2, buckle
my shoe' with the class.Teaching aidsBefore the lesson:

Have the objects of different shapes ready from Day 1. You will need one for each group.

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Have the square, rectangle, triangle and circle cards on the chalkboard.

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10 minutes	25 minutes		10 minutes	
Introduction	Main activity		Plenary	
Whole class teaching	Individual task		Whole class teaching	
Show the groups the objects from Day 2 and ask if anyone can remember their names, or tell you anything they know about the shape.	Give each group one object. Ask them to count the number of sides on	When they have had time to do this, tell them to return to their own experts.	Ask pupils to tell you one thing they have learned about shapes. Write what	
	their object.	Tell them to share with	they say on the chalkboard.	
	sk aden drouin to choose	heir own experts how many sides each shape has.		
	Ask the rest of the pupils in each group to go around the room to ask other experts about their shapes.			
	Tell pupils that they need to find out how many sides each shape has and that one pupil should remember these details.			

Term 1 Creating an effective learning environment

Week 5 Flat and solid shapes Day 4

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Spheres

Learning outcomes

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

Song

Daily practice

Whole class teaching

Sing a counting song, such as

'10 little fingers' with the class.

Identify a sphere.

Teaching aids

Before the lesson:

Have some different examples of spheres ready, at least one for each group, eg: a ball, an orange.

Write 'sphere' on the chalkboard.

10 minutes	25 minutes	10 minutes		
Introduction	Main activity		Plenary	
Group task	Whole class teaching	Individual task	Whole class teaching	
Give each group a sphere.	Show the class the word	Ask pupils to draw two objects that are spheres in their exercise books,	Call out the names of	
Ask them to look carefully at their sphere and say	'sphere' on the chalkboard and read it out to them.		the different solid and flat shapes the pupils have learned and ask them to give an example of an	
anything they can about it.	Help them to say it with you. They may need to say it several times because it is	eg: a ball and an orange. Ask them to write		
Write their ideas on the chalkboard.		the word 'sphere' under each picture.	object of that shape.	
	a hard word.		Ask pupils to bring in a sphere from home if they can, as they will be using them the next day.	
	Ask pairs to say where they have seen a sphere in everyday life.			
	Ask pupils to share their examples with the class.			
	Encourage them to use the word 'sphere' in their answers, eg: 'A ball is a sphere'.			

Term 1 Creating an effective learning environment

Week 5 Flat and solid shapes Day 5

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Spheres

Learning outcomes

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

Identify properties of shapes.

Teaching aids

Before the lesson:

Have as many spheres as possible ready.

Have one cube, one cuboid and one cylinder ready.

Daily practice

Whole class teaching

Lead the class in singing or saying a counting song or rhyme, such as '5 little monkeys'.

10 minutes	25 minutes			10 minutes	
Introduction	Main activity			Plenary	
Pair task	Group task	Whole class teaching		Whole class teaching	
Say the words side and corner. Ask pupils to explain to their partner what a side is and what a corner is. Pairs who finish quickly can try to remember how many sides and corners a cube, cuboid and cylinder have.	 If you have enough, give each group a selection of shapes including a sphere. Ask them to build a tower using all their shapes. When they have built it ask them to tell you which shapes they used and which they didn't use, and why. 	Ask the pupils to share their answers. Write their ideas on the chalkboard.	Ask them which shape rolls the best and see if they can explain why this is so.	Go round the circle and ask each pupil to say what they can do with their shape.	
		Ask them if the sphere was good to build with, and why, or why not.	Give out a shape to each pupil and ask them to find out two things they can do with it, eg: 'I can balance a cube on my head.'		
					Explain that a sphere has no corners and this makes spheres special.
		Take the pupils outside and ask them to stand in a circle.			
		Give out all the shapes, including the cube, cuboid and cylinder to pupils and ask them to roll them across the circle one at a time.			

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Credits

Special thanks go to:

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.

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