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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

Quality education is a direct result of the quality of teaching and teachers, more than anything else. Unfortunately, it is in these most critical factors that Kwara State education has suffered the worst setback in recent years.

Reports showing that the majority of children completing the first six years of basic education are unable to read or write have raised serious concerns about the quality of teaching and teachers in our schools. It was concluded that pupils failed because the teachers' basic education had also failed. In other words, they were all victims of an education system that has collapsed at all levels. Therefore, in seeking to address this serious problem, our intervention is holistic and delivered on a sustained basis.

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These lesson plans have been described as a 'cookery book' approach to teacher training. As a teaching manual, they have been designed to provide a step-by-step guide to teachers of literacy and numeracy, while ensuring that children become active learners. In using these lesson plans, teachers are continuously supported by both the State School Improvement Team and the school support officers who have been trained to provide such support.

I am delighted to note that within a very short time of these lesson plans being introduced into our schools, children's learning abilities have improved considerably. The lesson plans have also made learning and teaching a lot more exciting for both teachers and pupils. I am confident that these lesson plans will raise standards in our schools and improve the quality of children proceeding to higher levels of education in the near future.

I commend all those who have worked very hard to produce these lesson plans and thank the UK Department for International Development (DFID) for its abiding support to Kwara's education reform through its ESSPIN project.

Bolaji Abdullahi

Honourable Commissioner for Education, Science and Technology, Kwara State

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 environment	2 Build good relationships	3 Use classroom space	4 Display
The school environment has to make pupils feel comfortable, and stimulate their minds for learning to take place. There is plenty you can do to improve the feel of the classroom for your pupils. 1 Tacching methodology The lesson plans use a large variety of activities. If followed carefully, they will keep the pupils interested, motivated and will support effective learning in a structured way. These methods are designed to involve pupils in their learning and give them the opportunity to learn from each other.	 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 	Ose classroom space 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 to display pupils work to display pupils work in different ways. The start of each week display to display pupils work to display pupils work in different ways. There 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 it they are made carefully.
	them emotionally and make them unable to learn.		

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Term 1 Creating an effective learning environment

Introduction Essential low-cost or free teaching aids

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

Term 1 Creating an effective learning environment

Introduction Songs and rhymes for the term

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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	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	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'.
speckled frogs, glub, glub.4 little speckled frogs3 little speckled frogs2 little speckled frogs1 little speckled frog		and took it away. 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



Assessment

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one two three four five more less What day is today? 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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		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	25		10	
minutes	minutes		minutes	
Introduction	Main activity		Plenary	
Whole class teaching	Group task		Whole class teaching	
Ask the pupils to count out	Ask one pupil from	Give each group a set	Ask pupils if they can	
loud the number of fingers	each group to come and	of number cards from	count any other objects	
they have on each hand,	collect the sets of objects	1—5 and ask them	in the classroom and	
and the number of toes	you prepared before	to put the correct number	tell you how many there	
they have on each foot,	the lesson.	by each group.	are, eg: 2 windows,	
counting 1—5 each time.	Ask pupils to sort	Ask each group questions,	- 1 door, etc.	
As they count, point to	them into groups of the	eg: 'How many pencils		
the numbers written on	same object.	do you have?'		
the chalkboard.	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 MAN Primary Mathematics 1, page 3.

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 MAN Primary Rhyme 25 10 minutes minutes Mathematics 1 minutes **Main activity** Introduction Plenary Pair task **Group task** Individual task Whole class teaching Give each pupil a number Give each group a selection Tell the pupils to open Say the rhyme '1, 2, buckle between 1 and 5 and of different counters. **MAN Primary Mathematics** my shoe' with the pupils, check they can remember 1, page 3. showing them how to use Ask them to use them their number. their fingers while they are Ask them to find sets of to make sets of 1, 2, 3, 4 saying the rhyme. Ask all the class to go and 5. objects that are the same, count the number outside in pairs, count that Give each group a set of number of objects, and in each set and draw them number cards to put with remember what they have in their exercise books. their groups of objects. counted, eg: 3 trees. eg: footballs. When they return, ask them Ask them to use a counter to tell you the groups to cover up the objects that are different in the of objects they found for

their number.

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second exercise.

Term 1 Creating an effective learning environment

Week 1 Counting from 1—5 Day 3

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Ordering and counting

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.

15 Game ninutes

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 he numbers on their cards o one another. Ask them to mix the numbers up and do the same again.	Some pupils might have time to complete more than one number	_	
Point to a number on he 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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Daily practice Writing Learning outcomes By the end of the lesson, most Whole class teaching pupils will be able to: Ask the pupils: Write numbers 1—5. 'What day is it today?' Count 1—5. Write the name of the day on the chalkboard and read it with the pupils. **Teaching aids** Ask the pupils to look around the room and find each number Before the lesson: Stick the number cards on Say the numbers 1—5 in turn and ask them to go and stand by to the walls, grouping the same number together. each number as you say it. Collect a selection of counters If there are too many pupils for the pupils to use. for the space, half of them should stay seated while the other Prepare a sand tray for half move to the numbers. each group. and then change over so every-Draw the chart opposite on the one gets a turn. backs of old calendars/posters, one for each group.

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10 MAN Primary minutes Mathematics 1		25 minutes	MAN Primary Mathematics 1	10 Rhyme 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 you. Lead them in drawing numbers 1—5 in the air with your hands, feet, head, etc. Remember to stand with your back to the class so that you draw the numbers the correct way round. Ask pairs to use their fingers to draw the numbers 1—5 on the back of their partner, saying them	Find the number chart at the back of MAN Primary Mathematics 1 and ask the pupils to touch the numbers from 1—5 and count the objects by the numbers at the top of the page.	Give a sand tray to each group. Ask them to take turns to use their fingers to write 1—5 in the sand trays. Give each group a number chart like the one below and ask them to write the numbers 1—5 in the top row. Each pupil should write at least one number.	Ask them to draw a matching number of objects in the bottom row of their group's chart. Tell them to use the fold- out number charts at the back of MAN Primary Mathematics 1 to help them.	Say the rhyme '1, 2, buckle my shoe' with the pupils.

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.'

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10 minutes		25 minutes	MAN 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 MAN Primary Mathematics 1, page 5 and count	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	 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 other.		
Tell the pupils what they have done, using 'more', eg: Abiodun has 5 and Hadiza has 1. Abiodun has more than Hadiza.'		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

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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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.

Read MAN Primary Mathematics 1, page 143.

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 MAN Primary minutes Mathematics 1	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 their shape. When they have all found their shape, allow them to compare the shapes they have and check they are standing in the	and tell them what their shape is called, pointing out where it is written on their sign. Ask them to repeat their shape's name back to you and ensure	to their places and draw a circle, a square, a triangle and a rectangle in their exercise books. They can use MAN Primary Mathematics 1, page 143	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.	
	they can all say it. Help the pupils to stand in groups of four so that there is one circle, one square, one triangle and one rectangle in each group.	to help them. Ask any pupils who finish quickly to try and write the names of the shapes next to their drawings.	Practise by asking them to each make a circle with their body, eg: by holding their arms in a circle.	
correct place.			Call out the different shapes giving the pupils enough time to form each shape.	
	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.	

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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.

Read MAN Primary Mathematics 1, page 142.

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 MAN Primary minutes Mathematics 1		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 copy MAN Primary Mathematics 1, page 142, unit 2 into	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. 	their books. Ask them - to draw lines connecting the same shapes in each box. If possible, ask them to shade similar shapes with the same colours.	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.

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

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	
and corners on different shapes.	number cards from 1—5 and 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 the	
Have ready the cut-out shapes	numbers in the right order.	
from Day 1.		
Write the words 'side' and 'corner'		

Song

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10 minutes		25 minutes		10 minutes
Introduction		Main activity		Plenary
Group task		Pair task	Whole class teaching	Whole class teaching
Explain that a side is one line or edge of a shape. Show the class a side on a shape, and ask them to say the word with you. Give each group a square, a rectangle, a triangle and a circle.	Ask a group to share their results, and ask if the other groups agree. 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	Explain that a corner is where two sides meet. Show the class a corner on a shape and ask them to say the word with you. Ask each pair to look at either a square or a rectangle, and count the	Show the class a circle, and ask if anyone can say how many corners it has. Agree that a circle doesn't have any corners.	Ask the class if any of them can tell you one thing that is the same and one thing that is different about a square, a rectangle and a triangle.
Ask them to use their fingers to count the number of <mark>sides</mark> on each shape.	by the triangle.	number of corners. 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.Tell each group to move together and make the shape you call out.After the groups have made all of the shapes, tell one group to make a square, the second group to make a rectangle and the third to make a triangle.	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 shape has three sides?'	
Explain that it is made from simple shapes.	Give out the shapes to each pair.		
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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Words/phrases

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 MAN Primary Mathematics 1, page 26, unit 5.

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 MAN Primary minutes 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 MAN Primary Mathematics 1, page 26 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 <mark>more than</mark> 5 today. Ask the class to	Raise 1 more finger and ask them to do the same. Tell them that this number	Give each group a set of number cards 1—7 and a set of counting objects.	 7 and numbers in order from such as '10 little fingers' up to the number of counters on each number. n objects, m with counters and five counters 		
show you 5 fingers, and show them 5 of your own fingers.	the number on the chalk- board, and ask them - to say 'seven' with you.	Ask them to make one set of six objects and		_	
Raise 1 more finger and ask them to do the same.		one set of seven objects, and to label them with the cards for 6 and 7.			
Tell them that this number	you how many 'more than'	Ask them ques 'How many hav got left over?'	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		
say 'six' with you.	than' 5 this number is.		ber is. 'How many more than		
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		5 5 6?		
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	(moves 5 and 6), move your right hand to the right
and ask them to do the same. Tell them that this	em to do the Ask the class to show Lead the class in number of counters on side of counters on side of counters on side of counters on side of counting all the way from that this source and show counting all the way from the class in the c	side of your head, and your left hand to the left		
number is called 8 and show them the number on the	them your own. Raise one more finger	1—9, pointing to the – numbers on the chalk-	Ask them to take seven counters	- side of your head (moves 7 and 8).
chalkboard. Ask them to say 'eight' with you.	and ask them to do	eight' with you. and ask them to do encouraging them to	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.	Ask them questions, eg: 'How many have you got	Repeat the dance at least
	on the chalkboard,		left over?'	twice, making sure that all pupils are moving
	and ask them to say '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 numbers
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		you prepared.	in their group's churt.	
numbers 6—9 in the air 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

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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.

Find the fold-out number charts at the back of MAN Primary Mathematics 1.

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 MAN Primary minutes Mathematics 1	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.	Tell them to look at the numbers on the fold-out charts at the back of MAN Primary Mathematics 1 to help them.	
	Display the number charts around the room.	

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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 teachingInvite 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		25MAN PrimaryminutesMathematics 1		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 1—10, as below and bring individual pupils out	Ask pupils to answer questions to help them move along the number line in their books, eg:	Repeat the dance from yesterday's plenary.
Explain that you have made a number line,	 Step along the line from 2 to 8, asking the pupils to count as you move. 	to make jumps with their fingers along it.		
showing the numbers in order.	Ask them: 'How many steps have	Ask them: How many steps have Ask them to find the number Ine in the fold-out chart Ine in the fold-out chart	you landed on?'	
Bring individual pupils	l taken?'	in the back of MAN Primary Mathematics 1.	'Start at 7 and make 2 jumps with your finger.	
out to walk along the line, saying the numbers as they move.	Repeat with different numbers, asking pupils to come out and do	Ask them to use their fingers to count forwards	What number have you landed on?'	
With the number line still in place, ask the pupil holding two objects to show them to the class.	the stepping.	and backwards along the number line.	Give them time to do each task before they put up their hands to answer.	

Number line

1 2 3 4 5 6 7 8 9 10

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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 MAN Primary Mathematics 1, pages 27—29.

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 ninutes		25 Rhyme minutes	MAN Primary Mathematics 1	10 Dance minutes
Introduction		Main activity		Plenary
Whole class teaching		Whole class teaching	Individual 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	ew pupil to cards from 1—9 to take an object individual pupils.	Ask pupils to use their fingers to do the matching exercise in MAN Primary	Do the dance from 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.	Ask those pupils to come out and make a number	 Mathematics 1, page 29. 	front of your waist. This is move 0.
and stand in front of the class, and give him	Continue until the pupil has no objects left.	line using their cards from 1—9.		
or her nine objects. Ask a pupil to come	Explain that 'no objects' is called zero and draw	Hold up the '0' card and ask if anyone can tell	_	
and take an object from	a '0' on the chalkboard.	you where it sits on the		
the first pupil, and ask: How many are left?'	Lead the class in drawing a zero in the air	 number line. Say '5 little monkeys', 		
	with your hand.	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	Whole class teaching
pupils will be able to:	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 MAN Primary Mathematics 1, pages 63—65.	

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10 Song minutes	25 minutes	MAN 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 MAN Primary Mathematics 1, page 63.	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'	Ask pupils to count 10 counters and put the	Ask who can tell you which objects are in	hand high in the air and to the right of your body.
9 today.	number card underneath.	groups of 10.	Add in move 10, moving your left hand into the air
Lead the class by counting up to 9 with your	Ask them to put the cards in order from 0—10.	-	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 dance at least twice, encouraging them to say the numbers as they dance.
Raise one more finger and ask them to do the	number of counters on the number.		
same. Tell them that this number is called 10 and show them the number on the chalkboard.	Ask them to continue taking it in turns to do this for 10 minutes.	_	

Ask them to say 'ten' with you.

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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

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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:



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

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 outcomes

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

Identify cubes, cuboids and cylinders.

Teaching aids

Before the lesson:

Read MAN Primary Mathematics 1, page 141.

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.

Daily practice

Whole class teaching

Sing '10 little fingers' with the class.

Ask pupils to write as many numbers as they can in their exercise books.

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	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 MAN Primary Dance minutes Mathematics 1		
	Flat and solid	Learning outcomes	Daily practice		
	shapes	By the end of the lesson, most pupils will be able to:	Whole class teaching Ask a pupil to lead the class in dancing numbers 0—10 as in Week 3.		
		Explain some differences between flat and solid shapes.			
		Order numbers from 1—10.	Ask the pupils to look at the number line in the fold-out		
		Teaching aids	at the back of MAN Primary Mathematics 1 and use their fingers to count along the line		
		Before the lesson:	Ask the pupils questions about the numbers, eg: 'Which number comes before?' 'Which number comes after?' 'Start counting from 1 and		
		Stick the square, rectangle, triangle and circle cards from Week 2 on the chalkboard.			
		Stick number cards up on the walls, or draw 1—5 clearly on the chalkboard.			
		Have ready the objects from Day 1.	count up to 7', etc.		

10 minutes	25 minutes			10 minutes
Introduction	Main activity			Plenary
Whole class teaching	Whole class teaching		Group task	Whole class teaching
Ask pupils to look at the square, rectangle,	Show the class a cube and hold it next to the	Ask one pupil to hold up another object and name	Give one object to each group.	Ask the pupils to stand up in their places. Show them how they can draw the shapes in the air.
triangle and circle on the chalkboard.	square on the chalkboard. Remind them of the names - of each shape. Ask pupils to tell you	the flat shapes they can see on the object.	Ask the groups to look at their objects, name it and draw the different flat shapes they can see on it.	
Ask them to remind one another about the shapes.				Lead them in drawing a square, rectangle, triangle 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.	 any differences they notice between the square and the cube. 			
	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

Describing solid shapes

Learning outcomes

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

Explain what a cube, cuboid and cylinder look like.

Teaching aids

Before the lesson:

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

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

Read MAN Primary Mathematics 1, page 141.

Daily practice

Whole class teaching

Sing or say a counting song or rhyme, such as '1, 2, buckle my shoe' with the class.

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10 minutes	25 minutes Main activity		10 minutes Plenary	
Introduction				
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	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 they say on the chalkboard.	
anything they know about the shape.	their object. Ask each group to choose 1—2 pupils who will be the experts on their shape. They will stay in their seats.	Tell them to share with their 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

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.

Read MAN Primary Mathematics 1, page 144.

Write 'sphere' on the chalkboard.

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10 minutes	25 minutes	MAN Primary Mathematics 1	10 minutes
Introduction	Main activity		Plenary
Group task	Whole class teaching	Pair task	Whole class teaching
Give each group a sphere.	 Show the class the word 'sphere' on the chalkboard and read it out to them. Help them to say it with you. They may need to say it several times because it is a hard word. 	Ask pupils to complete the matching exercise in MAN Primary Mathematics 1, page 144.	Call out the names of the different solid and flat shapes the pupils have learned and ask them
Ask them to look carefully at their sphere and say			
anything they can about it.		Ask pupils to share their answers with the class.	to give an example of an
Write their ideas on the chalkboard.			object of that shape. 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'.

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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.	If you have enough, give each group — a selection of shapes	Ask the pupils to share their answers. Write their ideas on the chalkboard.	the best and see if they and ask eac	Go round the circle and ask each pupil to say what they can do with
	 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 them if the sphere was good to build with, and why, or why not.		- their shape.
Pairs who finish quickly can try to remember how many sides and corners a cube, cuboid and cylinder have.				
		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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