



SAMPLE LESSON: MATHEMATICS

Class: Form 2

Title of Module: Elementary Statistics and Probability

Title of Chapter: Probability

Title of Lesson: Probability Scale

Duration of Lesson: 55 minutes





SCHOOL: TTP COP;	TERM: 2 nd ;	DATE
Class: Form 2;	Number on Roll:; Girls:	; Boys:

Module: Elementary Statistics and Probability

Topic: Probability

Lesson 2: Probability Scale

Duration: 60mins

Objectives:

Learners will be able to place events on the scale based on the likelihood of that event.

Pre-requisite:

Learners can say how likely an event is to occur and classify events from impossible events to events that are certain to occur.

Preparation for the 3 lessons on probability for this class:

- 1. Games prepared (If you intend to use a game)
- 2. Gather Materials such as:

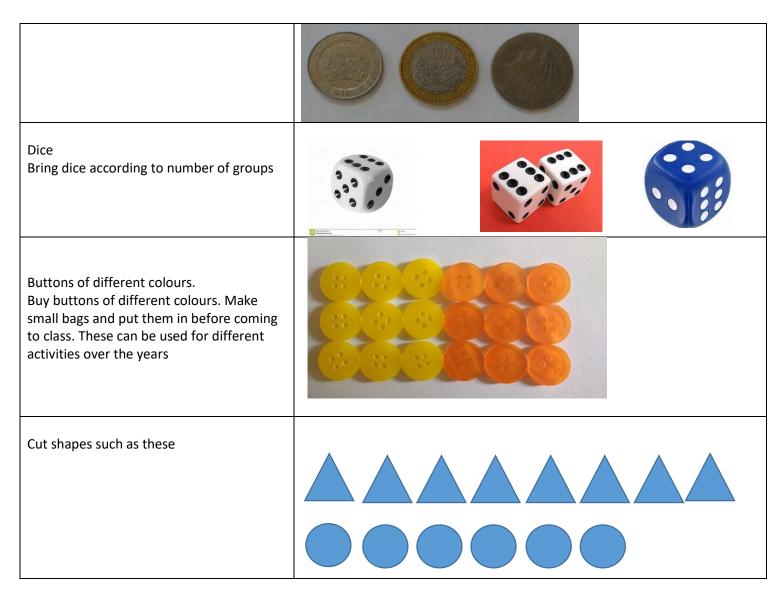
Coins of 50frs and 100frs
As many as you can provide.
(If your students are not to be trusted, tell them the day before that they will need coins during the next lesson. They will therefore bring)

















Create spinners from manilla papers and colour the sectors or number them





Photocopy Worksheets according to intended number of groups

- 3. Read through lesson plan and print out if necessary
- 4. Type and print out problem situation OR write out on cardboard paper (large characters) that will be pested on the wall for all to see.

References:

- 1. <a href="https://www.bing.com/search?q=spinner+for+games&form=EDNTHT&mkt=en-us&httpsmsn=1&refig=e7060f073dc1451dbcbaa690e12e2ec2&sp=2&qs=HS&pq=sp&sk=HS1&sc=8-2&cvid=e7060f073dc1451dbcbaa690e12e2ec2&cc=US&setlang=en-US
- 2. https://www.onlinemathlearning.com/probability-of-an-event.html
- 3. https://www.mathsisfun.com/probability_line.html
- 4. Modular Mathematics for GCSE, Brain Gaulter and Leslye Buchanan, (1994) Oxford University Press
- 5. Mathematics 7, Nelson Thornes (2003)
- 6. Ordinary Level Mathematics, Piankeh Albert, (2011), Mbosso Publishers Bamenda





Stages / Duration	Teaching / Learning Activities		Learning Points	Observations
	Teacher's Activities	Learners' activities		
	Greetings students, today we will continue with			
Introduction	our lesson on probability	Get to order for the lesson	Students copy what is here in their note books	
15 mins	Revision of different vocabularies		Revision of different vocabularies	Pay attention
	A) Let us read out each of the statements below. It		A)	to students'
	is an event. Discuss with your bench mate and say		1. Impossible. There is no yellow ball in the	spoken
	the likelihood of the event using the words:	Students	bag.	language and
	Impossible event, equally likely events, Certain, Less	individually give		correct them
	likely, most likely, even chance etc.	their opinions	2. Is less likely. There are only 4 kings out of	along
	1. The event of selecting a yellow ball from a bag	based on their	52.	along
	which contains 5 red balls and 2 white balls.	reasoning.	3. Equally likely because there are equal	
	2. The event of drawing a King from an ordinary pack of 52 cards.		number of girls as boys	
	3. The event of selecting a girl among Form 3A		4. More likely because there are more	
	students made up of 35 boys and 35 girls.		oranges in the basket than apples.	Encourage
	4. The event of picking out an orange from a			learners to
	basket containing 7 oranges and 2 apples.	Learners	5. Equally likely events because there are 5	use
	5. The event of choosing an even number or an	volunteer to	even numbers and 5 odd numbers.	vocabularies
	odd number from the numbers 11, 12, 13, 14,	respond or give		in making
	15, 16, 17, 18, 19, 20.	their reflection	6. Certain. Whoever is chosen is a girl.	complete
	6. The likelihood of choosing a girl from a class			•
	made up of 30 girls is?		7. Impossible because there is no purple	sentences
	7. A spinner has 4 equal sectors coloured yellow,		colour on the spinner.	
	blue, green and red. The event of landing on	Learners copy the	8. Certain. All numbers on the die are less	
	purple colour after spinning the spinner is?	learning point in	than 7, so any number chosen will be less	
	8. A die is rolled, the likelihood of rolling a	their note books	than 7.	
	number less than 7 is			





Stages / Duration	Teaching / Learning Activities		Learning Points	Observations
	Teacher's Activities	Learners' activities		
Probability Scale	B) If a die is rolled, then which of the following events is neither certain nor impossible? i) Rolling a number less than 7. ii) Rolling an even number. iii) Rolling a zero. The likelihood of these different events can be displayed on a Probability Scale The possibility (or likelihood) of an event occurring A scale below shows the chance of things happenin		B) i) is Certain. ii) is equally likely iii) is impossible robability scale as below:	
,	Less likely More likely			Copy this diagram of the
	No chance Poor chance	Even chance	Good chance Certain	probability scale and share
	The probability of an event occurring is somewhere between Impossible and Certain. Using numbers, probability can range in between 0 to 1. The probability of Impossible event is 0 The probability of an event that is Certain is 1.			with learners to put in their books.
	As fractions:			







Stages / Duration	Teaching / Learning Activities		Learning Points	Observations
		Learners' activities		
	$0 \qquad \frac{1}{4} \qquad \frac{1}{2} \qquad \frac{3}{4}$	1		
	As Percentage:			Give the students
	0% 25% 50% 75%	100%		thinking time and allow them to discuss, draw and represent
	As Decimals:			represent
	0 0.25 0.5 0.75	1 -		
Activity	Draw a probability scale and show where each of the evaluation 1. The event of selecting a yellow ball from a bag which 2. The likelihood of choosing a girl from a class made 3. The event of drawing a King from an ordinary pack 4. The event of picking out an orange from a basket of 5. The event of selecting a girl among Form 3A studer Scale	ch contains 5 red up of 30 girls is? of 52 cards. ontaining 7 orang	balls and 2 white balls. ges and 2 apples.	Give the students thinking time and allow them to discuss,







Stages / Duration	Teaching / Learning Activities		Learning Points	Observations
	Teacher's Activities	Learners' activities		
	1	2		draw and represent
	3	4		
Conclusion	All events that are Certain have a probability All Impossible events have a probability of 0			