Title: Chance For Gifted and Talented Focus KLA: <u>Mathematics</u> Strands: Chance and Data Year Level: 5 and 6 Duration: 5 weeks

Context Statement	Chance activities can provide a positive and enjoyable opportunity for students to understand probability and make links with fractions, decimals and percentage. These activities are often rich in mathematics and involve a considerable amount of maths language, mental computation and problem solving.	
<b>Focus Question</b>	How can chance be seen to be a fraction?	
Contributing Questions	<ul> <li>What relationship is there between chance and fractions, decimals and percentage?</li> <li>What devices do we use in games to decide on chance?</li> <li>How might rules and game processes affect chance?</li> <li>How do we express chance differently in real life?</li> </ul>	
Values and	Knowledge of probability is important in	
Attitudes	making choices and decisions.	
	Games are a meaningful, enjoyable and	
	challenging way to learn maths and can provide	
	depth and substance.	
Knowledge and	Chance is a common feature in our everyday	
Understandings	lives.	
	Making predictions may depend on chance.	
	Independence of events	
	Dependence of events	
	$\rightarrow$ Language of chance	
	> Language of chance	ICT
Skills	Language of chance CSF OUTCOMES	ICT
<b>Skills</b> Analysing	Language of chance CSF OUTCOMES	ICT
Skills Analysing Bias Recognition	Language of chance <u>CSF OUTCOMES</u> <u>MATHEMATICS</u>	ICT
Skills Analysing Bias Recognition Checking	Language of chance <u>CSF OUTCOMES</u> <u>MATHEMATICS</u> <u>CHANCE AND DATA</u>	ICT
Skills Analysing Bias Recognition Checking Classifying	Language of chance <u>CSF OUTCOMES</u> <u>MATHEMATICS</u> <u>CHANCE AND DATA</u> <u>Chance</u> 11 M4 OD C401	ICT
Skills Analysing Bias Recognition Checking Classifying Co-Operating Considering	Language of chance <u>CSF OUTCOMES</u> <u>MATHEMATICS</u> <u>CHANCE AND DATA</u> <u>Chance</u> 4.1 MACDC401      Ended to the second	ICT
Skills Analysing Bias Recognition Checking Classifying Co-Operating Considering Options	Language of chance          CSF OUTCOMES         MATHEMATICS         CHANCE AND DATA         Chance         4.1 MACDC401         Examine the outcomes from simple chance         current and data on familiar events to order	ICT
Skills Analysing Bias Recognition Checking Classifying Co-Operating Considering Options Designing	Language of chance <u>CSF OUTCOMES</u> <u>MATHEMATICS</u> <u>CHANCE AND DATA</u> <u>Chance</u> 4.1 MACDC401  Examine the outcomes from simple chance experiments and data on familiar events to order experiments and data on familiar events to order externals and events from least to most likely.	ICT
Skills Analysing Bias Recognition Checking Classifying Co-Operating Considering Options Designing Elaborating	Language of chance <u>CSF OUTCOMES</u> <u>MATHEMATICS</u> <u>CHANCE AND DATA</u> <u>Chance</u> 4.1 MACDC401 Examine the outcomes from simple chance experiments and data on familiar events to order outcomes and events from least to most likely. 4.2 MACDC402	ICT
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Skills Analysing Bias Recognition Checking Classifying Co-Operating Considering Options Designing Elaborating Estimating Explaining Generalizing	<ul> <li>Language of chance</li> <li><u>CSF OUTCOMES</u></li> <li><u>MATHEMATICS</u></li> <li><u>CHANCE AND DATA</u></li> <li><u>Chance</u></li> <li>4.1 MACDC401</li> <li>Examine the outcomes from simple chance</li> <li>experiments and data on familiar events to order</li> <li>outcomes and events from least to most likely.</li> <li>4.2 MACDC402</li> <li>Use and interpret numerical statements which</li> <li>quantify chance.</li> <li>4.3 MACDC403</li> </ul>	ICT
Skills Analysing Bias Recognition Checking Classifying Co-Operating Considering Options Designing Elaborating Estimating Explaining Generalizing Hypothesising	<ul> <li>Language of chance</li> <li><u>CSF OUTCOMES</u></li> <li><u>MATHEMATICS</u></li> <li><u>CHANCE AND DATA</u></li> <li><u>Chance</u></li> <li><u>4.1 MACDC401</u></li> <li>Examine the outcomes from simple chance</li> <li>experiments and data on familiar events to order</li> <li>outcomes and events from least to most likely.</li> <li><u>4.2 MACDC402</u></li> <li>Use and interpret numerical statements which</li> <li>quantify chance.</li> <li><u>4.3 MACDC403</u></li> <li>Use language of chance in everyday situations.</li> </ul>	ICT
Skills Analysing Bias Recognition Checking Classifying Co-Operating Options Designing Elaborating Estimating Explaining Generalizing Hypothesising Inferring	<ul> <li>Language of chance</li> <li><u>CSF OUTCOMES</u></li> <li><u>MATHEMATICS</u></li> <li><u>CHANCE AND DATA</u></li> <li><u>Chance</u></li> <li>4.1 MACDC401</li> <li>Examine the outcomes from simple chance</li> <li>experiments and data on familiar events to order</li> <li>outcomes and events from least to most likely.</li> <li>4.2 MACDC402</li> <li>Use and interpret numerical statements which</li> <li>quantify chance.</li> <li>4.3 MACDC403</li> <li>Use language of chance in everyday situations.</li> <li>Summarising and presenting data</li> </ul>	ICT
Skills Analysing Bias Recognition Checking Classifying Co-Operating Considering Options Designing Elaborating Estimating Explaining Generalizing Hypothesising Inferring Interpreting	<ul> <li>Language of chance</li> <li><u>CSF OUTCOMES</u></li> <li><u>MATHEMATICS</u></li> <li><u>CHANCE AND DATA</u></li> <li><u>Chance</u></li> <li><b>4.1 MACDC401</b></li> <li>Examine the outcomes from simple chance</li> <li>experiments and data on familiar events to order</li> <li>outcomes and events from least to most likely.</li> <li><b>4.2 MACDC402</b></li> <li>Use and interpret numerical statements which</li> <li>quantify chance.</li> <li><b>4.3 MACDC403</b></li> <li>Use language of chance in everyday situations.</li> <li><u>Summarising and presenting data</u></li> <li><b>4.1 MACDS401</b></li> </ul>	ICT
Skills Analysing Bias Recognition Checking Classifying Co-Operating Options Designing Elaborating Estimating Explaining Generalizing Hypothesising Inferring Interpreting Justifying	<ul> <li>Language of chance</li> <li><u>CSF OUTCOMES</u></li> <li><u>MATHEMATICS</u></li> <li><u>CHANCE AND DATA</u></li> <li><u>Chance</u></li> <li>4.1 MACDC401</li> <li>Examine the outcomes from simple chance</li> <li>experiments and data on familiar events to order</li> <li>outcomes and events from least to most likely.</li> <li>4.2 MACDC402</li> <li>Use and interpret numerical statements which</li> <li>quantify chance.</li> <li>4.3 MACDC403</li> <li>Use language of chance in everyday situations.</li> <li><u>Summarising and presenting data</u></li> <li>4.1 MACDS401</li> <li>Prepare tabular displays of discrete and continuous</li> </ul>	ICT
Skills Analysing Bias Recognition Checking Classifying Co-Operating Considering Options Designing Elaborating Estimating Explaining Generalizing Hypothesising Inferring Interpreting Justifying Listening	<ul> <li>Language of chance</li> <li><u>CSF OUTCOMES</u></li> <li><u>MATHEMATICS</u></li> <li><u>CHANCE AND DATA</u></li> <li><u>Chance</u></li> <li><u>4.1 MACDC401</u></li> <li>Examine the outcomes from simple chance</li> <li>experiments and data on familiar events to order</li> <li>outcomes and events from least to most likely.</li> <li><u>4.2 MACDC402</u></li> <li>Use and interpret numerical statements which</li> <li>quantify chance.</li> <li><u>4.3 MACDC403</u></li> <li>Use language of chance in everyday situations.</li> <li><u>Summarising and presenting data</u></li> <li><u>4.1 MACDS401</u></li> <li>Prepare tabular displays of discrete and continuous data.</li> </ul>	ICT
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Skills Analysing Bias Recognition Checking Classifying Co-Operating Options Designing Elaborating Estimating Explaining Generalizing Hypothesising Inferring Interpreting Justifying Listening Locating information	<ul> <li>Language of chance</li> <li><u>CSF OUTCOMES</u></li> <li><u>MATHEMATICS</u></li> <li><u>CHANCE AND DATA</u></li> <li><u>Chance</u></li> <li>4.1 MACDC401</li> <li>Examine the outcomes from simple chance</li> <li>experiments and data on familiar events to order</li> <li>outcomes and events from least to most likely.</li> <li>4.2 MACDC402</li> <li>Use and interpret numerical statements which</li> <li>quantify chance.</li> <li>4.3 MACDC403</li> <li>Use language of chance in everyday situations.</li> <li><u>Summarising and presenting data</u></li> <li>4.1 MACDS401</li> <li>Prepare tabular displays of discrete and continuous data.</li> <li><u>Interpreting data</u></li> <li>4.2 MACDI402</li> </ul>	ICT
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Skills Analysing Bias Recognition Checking Classifying Co-Operating Options Designing Elaborating Estimating Explaining Generalizing Hypothesising Inferring Interpreting Justifying Listening Locating information Making choices Note-taking	CSF OUTCOMES MATHEMATICS CHANCE AND DATA Chance 4.1 MACDC401 Examine the outcomes from simple chance experiments and data on familiar events to order outcomes and events from least to most likely. 4.2 MACDC402 Use and interpret numerical statements which quantify chance. 4.3 MACDC403 Use language of chance in everyday situations. Summarising and presenting data 4.1 MACDS401 Prepare tabular displays of discrete and continuous data. Interpret, discuss and compare data displays, including how well they communicate information.	ICT

Ordering events	SHAPE AND SPACE	
Organising	4.3 MASPS403	
Performing	Make congruent copies of given three-dimensional	
Persuading	objects.	
Planning	REASONING AND STRATEGIES	
Predicting	Mathematical reasoning	
Presentation	4.1_MARSR401	
variety	Make and test simple conjectures in each mathematics	
Provide feedback	strand.	
Questioning	4.2 MARSR402	
Reading	Make judgments about the accuracy of reasoning and	
Reflect on own	results and modify working accordingly.	
learning	4.3 MARSR403	
Respond to other's	Use and interpret simple mathematical models.	
wk	Strategies for investigation	
Restating	4.1 MARSS401	
Revisiting	Generate mathematical questions from presented data	
Seeing patterns	and from familiar contexts.	
Selecting	4.3 MARSS403	
information	Use a range of strategies for inquiry when responding	
Self-assessing	to tasks and problems.	
Sharing ideas	4.4 MARSS404	
Summarising	Communicate own responses to tasks and problems	
Synthesising	appropriate for this level to others.	
Testing		
Visually		
representing		
Work to a timeline		
	Activities	
Key Concepts		
Conceptual and ma	thematical language	
a chance, biased, cate	egories, certain, classification, collection, comparisons,	
data, diagram, except	tion, experiment, even chance, event, fair, frequency,	
graph, impossible, in	vestigate, judgment, likely, modify, no chance,	
numerical scale, orde	er, outcome, outside chance, per cent, possible,	
probable, probability	, random, scale, scaled graph, summarise, survey,	
table, uncertain, unfa	ir, unlikely, 50%, fifty-fifty, 0.5, one chance-in-four,	
1⁄4.		
Tuning in and	Activity 1	
	Concept man $-$ Ask students to construct their own	
preparing to	concept map on the concept of "chance"	
find out	Brainstorm words and phrases we use in everyday	
<b>XX71</b> ,	life involving chance	
what activities will		
be used to:	Activity 2	
□ <b>D</b> <i>x</i> · · · · · · <sup>11</sup>	Probability lines – from the words in the brainstorm	
	create statements that you think match the words or	
students in	phrases.	
the topic?	For example:	
	· •	[

□ Assess prior	Phrase – extremely unlikely	
knowledge?	Statement – a meteor will land in the school	
	playground during lunchtime.	
further	Place these on a number line between 0 and 1. Zero	
planning?	for impossible and one for a certain chance.	
$\Box$ Lead into the		
finding out		
experiences?		

Finding Out	Activity 3	
8-44	Play the game "Deal a Diamond" (adapted from	
Experiences to assist	Maths on the Go, by Rob Vingerhoets, 2001,	
students to find	MacMillan)	
gather new	Use a pack of playing cards to show the relationship	
information about	between fractions and probability. Ask the students,	
the topic	how many cards in a pack and ask them to work out	
-	the probability of drawing a particular card $(1/52)$ .	
	Have them suggest words or phrases that describe	
	the chance, for example slim chance, unlikely, etc.	
	Discuss the mathematics in the language. Repeat this	
	for other questions such as the probability of dealing	
	a diamond (13/52) or other suit, an odd number,	
	even number, picture card, a number, etc. Have	
	students write the questions and convert the	
	probability expressed as fractions into decimals and	
	percentages. $(13/52 = \frac{1}{4} = 0.25 = 25\%)$ Allow	
	students to test their chances by pairing up and	
	picking a card. For example choose an ace and then	
	deal out 13 cards. Did an ace come out? Why/why	
	not? Discuss.	
	Variations: Vary the game by taking out certain	
	cards or suits and challenging students to work out	
	the probability. Have them explain how and why the	
	probability has changed. Set them a target	
	probability and ask what they might take out to	
	reach it.	
Sorting Out	<u>Activity 4</u>	
	Play the game "Ninny Ninny" (adapted from <i>Maths</i>	
Activities to assist	on the Go, by Rob Vingerhoets, 2001, MacMillan)	
students to process	Place 9 dice $-3$ of 3 different colours e.g. red, white,	
and work with the	green – in an opaque container. Students rule a page	
information and	into three columns and place the numbers 1-9 down	
ideas they have	the page. The first column is for their prediction, the	
gathered about the	second is for the probability and the third is for the	
topic, including	actual colour. Ask the students to predict what	
values.	colour is going to be pulled out first. Write their	
	prediction (R, W or G), the probability (all have an	
	equal chance 3/9, 1/3 or 33%) and then the actual	
	colour that came out. Continue with the remaining 8	
	dice. How has the probability changed if the first die was white? (Bad or group will be $2/8 - 2 \cdot 8 - 27.50$ )	
	was white? (Red of green will be $5/8 = 5.8 = 5/.5\%$	
	and white will be $2/0 - 74 - 25\%$ ). Students will their prediction and continue playing until there are	
	no dice left Students then total their number of	
	correct predictions	
	Play the game again and discuss what students have	
	discovered. Did they do better the second time?	
	Why/why not?	
	<b>Variations:</b> Begin to include the numbers in the	
	r un automo, begin to menude die numbers in die	

	game. Consider the probability of various	
	combinations of colour and number, odds and evens.	
	Vary the colour combinations and number of dice.	
	For example start with 6 red, 3 white and 3 green.	
	Add one die of another colour another colour such as	
	blue $(1/10)$ and follow how its percentage changes	
	as the game progresses.	
Making	Activity 5	
Conclusions	<b>Snakes and Ladders</b> – Rule up a 10 by 10 grid on	
Conclusions	the board and number each square $100 - 1$ . Make	
A	some snakes and ladders which can be stuck onto the	
Activities to pull it	board with Blue Tac and be moved around at will.	
all together to	Move some of the Snakes and ladders and ask the	
demonstrate what	students how the likelihood of winning has changed.	
the students have	Can we increase or decrease the chance of winning	
learnt and for the	by moving the ladders or snakes? What would you	
purposes of	do to make the smallest/largest change? Can you	
reflecting on their	think of any other ways we could alter the game to	
own learning.	change the chance of winning the game. Try	
	designing your own snakes and ladders game.	
	Some suggested strategies for changing games	
	(adapted from <i>Dice Dazzlers</i> , by Paul Swan, 2003,	
	A-Z Type Woodvale WA).	
	Change the dice	
	> Add a decimal point	
	$\blacktriangleright$ Change the board or target from 0 – 1 instead	
	of 1 – 100	
	➢ Allow a choice of dice − which one to use?	
	Smallest could be declared the winner	
	Miss a turn	
	Choose a direction	
	$\succ$ Change fraction dice to decimals or	
	percentage	
	➢ Halving odd numbers – wait to make whole	
	numbers or half before moving	
	Whole numbers can't move	
	➤ Use different coloured dice – one for	
	addition another for subtraction or first roll	
	and second roll	
	Consider using poison numbers	
	$\succ$ Cross numbers off in order or the ones	
	landed on	
	Combine numbers in as many different ways	
	Allow different operations to be used	
	Move back or forward for odd or even	
	Win an extra dice	
	Make fractions from two dice	
	$\succ$ Add or subtract a number from the dice	
	shown	
	Create and change your own dice from 3D	

	nets of various shapes – configuration of numbers, shape, use weights on one or more	
	faces of the dice.	
Going Further	Activity 6	
	Making their own game	
Activities to	Students design their own board game using chance.	
challenge and	They can use any device or combination of devices	
extend	they choose e.g. cards, dice, spinner etc, but their	
	game must involve the use of fractions knowledge in	
	some way by the players.	
	A teacher created example:	
	Sample Game.doc	
Action	Activity 7	
	Demonstrate their game	
Activities to link	Present and demonstrate their creations to the class.	
theory and practice.	Play their games.	
	-	
To empower		
students to act on		
what they have		
learnt and to make		
links to their daily		
lives.		
<b>Resources</b> /	Maths on the Go, by Rob Vingerhoets, 2001,	
References	MacMillan Education Australia Pty Ltd.	
	Dice Dazzlers, by Paul Swan, 2003, A-Z Type	
What materials do	Woodvale WA.	
we need to help us	Cards, dice, calculators,	
teach this unit?		
Excursions &		
Incursions		
Assessment		
routines &	Concept Maps Pre and Post	
routiles e	Game	
What peods to be set		
what needs to be set		
up at the beginning		
of the unit to ensure		
1) Systematic		
collection of		
data		
Guiu		
2) Ongoing		
reflection		
and self-		
assessment		

# Appendices

# COLOUR JACKPOT

# How to play:

- 1. Everyone choose a counter, and place it on the start square.
- 2. The youngest in the group goes first, roll the dice and whatever number you land on, pick up the card with the same symbol on it.
- 3. The person opposite you pick up the answer sheet and see if the person is right or wrong.
- 4. If the person is right he/she moves forward two, and lets someone else have a turn. If he/she is wrong he/she moves back two.
- 5. The first person that lands on the jackpot square wins.

# **RULES**

- 1. If he/she does not no the answer, say pass and move back one space.
- 2. You are allowed to work out the answers on a piece of paper.
- 3. You are not allowed to help the other person with answer.
- 3. When the person is answering the answer he/she has only twenty seconds to answer.
- 4. You must go in the number order.
- 5. Remember always have **FUN**

# FRACTIONMAZE

HOW TO PLAY:

- 1) Roll the die to see who goes first. the highest fraction should start.
- 2) The player who goes first will roll the die and whatever fraction it lands on they move to it (the closest one) on the board eg: if I roll a ¼ at the start I'll move to the closes ¼ on the board!
- 3) If you land on a *move back 5 move ahead 2 etc* do whatever it tells you to do eg: if I was to land on a square that says *move ahead 2* I would do what it told me I would move ahead 2.
- 4) If you land on a *rainbow* you have to climb over it which will bring you closer to the finish.
- 5) When somebody finishes, the players that are left, can wish to play on 'till' there is only 1 person left.

THERE ARE <u>NO</u>RULES JUST

HAVE FUNIIIII

# **Mouse Matrix**

- 1. Everyone takes turns rolling the dice
- 2. Whatever space you land on the person on your right makes up the corresponding sum
- 3. If you come to an intersection you can pick any line you wish
- 4. First to reach the middle wins
- 5. If 2 people land on the same space the other person asks a sum and whoever answers first stays and the other person moves
- 6. If 3 people land on the same space you all have to separate

# **Fraction Cards**

First you will have to pick a card out of the card deck. You will have to use equivalent fractions. Read what the card says and try to match it to the fractions on the game board. You may go 5 steps. If you can not find an equivalent fraction matching to your card just take a step forwards.

# **Mini Fraction Uno** Instructions:

This game is similar to UNO except it's using fractions.

<u>Rule 1:</u> If the card on top is different to your card, you may put it on top if it is the same colour or a different number that is another colour. This also goes for reverse and skip.

<u>Rule 2 (Wild Card):</u> If you have a wild card you may put it on top when ever you want to this means that you can choose what colour you wish to change it to.

<u>Rule 3 (Skip Card)</u>: If you have a skip card this means that when you put it down you skip the person beside you.

<u>Rule 4 (Reverse Card)</u>: If you have a reverse card this means that when you use it, it will change the direction of the way that you a playing.

**<u>Rule 5:</u>** If you have only one card left you have to say uno to let other people know that you have only got one card left.

**<u>Rule 6 (Winner)</u>**: To be the winner you have to be the one with no cards left.



# **Monopoly Fraction**

CHARACTERS

The characters include Garfield, Asterix, Jackie Chan, Vegeta and Druid Getafix. With these characters you'll never stop having fun. Remember the maximum number of players is five.

RULES

The rules are simple. You start off with two one dollar notes, a five dollar note, a ten dollar note, a twenty, a fifty, and a hundred. Your goal is to be the first person to reach five hundred dollars.

CHANCE

If you land on a chance you pick up a chance card. The chance card will consist of a fraction question. On the bottom left of the card you will see a time limit. You are required to answer the question before the deadline. You will receive money depending on how fast you answer it. e.g. if I answer my question with twenty seconds on the clock I will be given twenty dollars. If you are not able to answer the question you will be forced to give money to the banker. The money you hand over will depend on the time limit. PROPERTY & OTHER

If you happen to land on a property you will not be required to buy it though you may if you wish. If you land on someone else's property you will be expected to pay a fine.

Circus- \$50

Boat Ride-\$30

Pokemon Mystery-\$80

Salvation Army Center-\$20(but if you own a property pay extra \$16 for every property you own for donation)

Railroad stations-\$20(but if you own a property pay extra \$20 for every railroad you own)

OTHER RELEVANT INFORMATION

You roll the dice once every turn however you may roll again if you get a six but if you get three sixes in a row, you go to JAIL! You can also roll again if you land on a railroad station. However if you land on someone's station you pay the fine and you don't obtain another turn. If you are low on funds you may mortgage off your property otherwise sell it to another player for any amount. If you tossed a six and you land on a miss a turn you do not miss your next turn but you miss the turn that you earned for throwing a six.



# How to Play

### Aim:

To travel around the fractions equivalence wheel ten times. First to make it around is the winner.

## **Equipment:**

Playing board, coloured counters (one per player), fraction dice.

### **Rules:**

You make up the rules before you start...

Snakes & Fractions

Notes and rules:

1. First person to one whole straight away wins.

2. If you land on a double fraction you go up the ladder.

3. If you land on an improper fraction you have to go down the snake.

4. To save your self from going down a snake you have to change an improper fraction to a mixed number in 5 seconds.

5. If you save yourself in 3 seconds you get an extra turn (YAHOO!!!!)

6. Each square you land on you have to workout the sum on it. If you get it wrong you miss a turn, but if you get it right, you get another turn.

f quipment/

- 1. 2-5 players
- 2. One dice
- 3. One timer
- 4. Board to play on
- 5. Some counters
- 6. Calculator to double check the answers
- 7. ENJOY THE GAME!!!!!

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