

Introducing our spring term newsletter

Dear members of the Numeracy Ninjas Family,

We hope your academic year is going well and that your learners are showing good progress with their numeracy skills. We have lots of exciting news to share with you in this Spring Term edition of our newsletter, keeping you up to date with all Numeracy Ninjas developments.



We will share with you our biggest news, the launch of our brand new product, Ninjas Plus which has been built based on customer requests. This takes Numeracy Ninjas to the next level, covering the next 150 skills above those in the standard (Series A) programme.

In this edition we will also be sharing the 20 winning schools in the Spring and Summer Terms Prize Draws.

Furthermore, we will showcase another initiative you can use to keep your learners engaged in learning numeracy, featuring some resources from the PDC related to numeracy in darts.

We hope you and your families enjoyed a wonderful Easter break and are looking forward to the Summer Term. We look forward to working with you again in 2024.

Best wishes,

Will & Emma



Ninjas Plus- Next Level Ninjas

150 New Ninja Skills

150 New Skill Checks

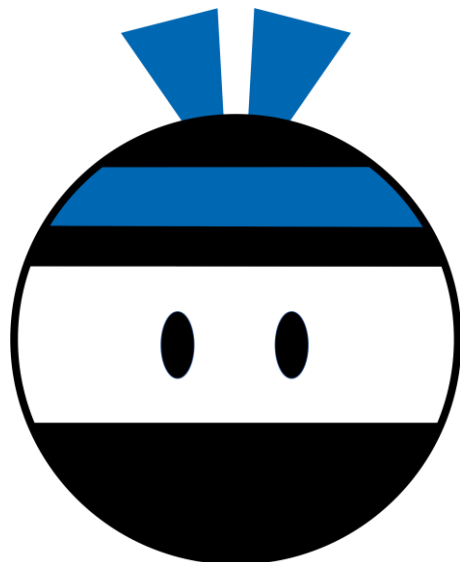


We are thrilled to share with you the launch of our brand-new product, Ninjas Plus.

This is a programme featuring the next 150 skills above the standard (Series A) Numeracy Ninjas programme. If you use the standard Series A resources with Year 7 (aged 11-12), Ninjas Plus will be ideal for your learners to move onto in Years 8, 9 & 10 (aged 12-15).

The programme is split into three levels: bronze, silver and gold, with each level introducing 50 new Ninja Skills. The bronze programme launched this week, and the silver and gold will follow soon.

For full details see our [Ninjas Plus page](#) on our website and see screenshots of the programme's resources over the next few pages.

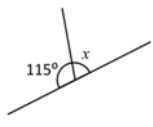
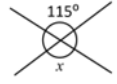
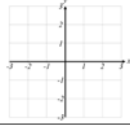
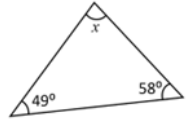
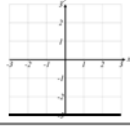
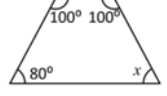
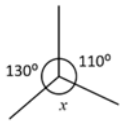


Screenshots from Ninjas Plus
Example of a Ninjas Plus Skill Check



SESSION 3- NINJAS PLUS SKILL CHECK

Non-calculator. Use written calculations if useful

Q	Question	Answer	Q	Question	Answer
1	Write this inequality in words $x \geq 5$		6	Find x 	
2	The n th term rule for a linear sequence is given below. Write the first 5 terms in the sequence $3n - 5$		7	Find x 	
3	Draw the line $x = -1$ 		8	Find x 	
4	Equation of this line? 		9	Find x 	
5	Find x 		10	Convert 3.5cm into mm	

NINJA SCORE:

Screenshots from Ninjas Plus
Example of the Answers Presentation



Q	Question	Answer	Q	Question	Answer
1	Write this inequality in words $x \geq 5$	x is greater than or equal to 5	6	Find x 	65°
2	The n th term rule for a linear sequence is given below. Write the first 5 terms in the sequence $3n - 5$	-2, 1, 4, 7, 10	7	Find x 	115°
3	Draw the line $x = -1$		8	Find x 	73°
4	Equation of this line? 	$y = -3$	9	Find x 	80°
5	Find x 	120°	10	Convert 3.5cm into mm	35mm

NUMERACY⁺
NINJAS
NINJAS PLUS
ANSWERS
BRONZE
BOOK 4
SESSION 3

LINKS
HOME
LAUNCH SESSION

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Screenshots from Ninjas Plus
Example of the Achievement Certificates



BOOK 1								
SESSION	1	2	3	4	5	6	7	8
NINJA SCORE								

BOOK 2								
SESSION	1	2	3	4	5	6	7	8
NINJA SCORE								

BOOK 3								
SESSION	1	2	3	4	5	6	7	8
NINJA SCORE								

BOOK 4								
SESSION	1	2	3	4	5	6	7	8
NINJA SCORE								

BOOK 5								
SESSION	1	2	3	4	5	6	7	8
NINJA SCORE								

BOOK 6										
SESSION	1	2	3	4	5	6	7	8	9	10
NINJA SCORE										



150 New Ninja Skills Covered in Ninjas Plus

Bronze programme		Silver programme		Gold programme				
Book 1	1	Power laws- power of one	Book 1	1	Power laws- unit fraction powers	Book 1	1	Power laws- non-unit fraction powers
	2	Power laws- power of zero		2	Power laws- negative powers		2	Power laws- negative and fractional powers
	3	Power laws- multiplying numbers with the same base		3	Highest common factor		3	Simplifying surds
	4	Power laws- dividing numbers with the same base		4	Lowest common multiple		4	Write a number close to standard form in standard form
	5	Power laws- power of a power		5	Collecting like terms- surds		5	Add numbers in standard form
	6	Prime factor form		6	Multiplying surds		6	Subtract numbers in standard form
	7	Add fractions with like denominators		7	Dividing surds		7	Multiply numbers in standard form
	8	Subtract fractions with like denominators		8	Write an ordinary number in standard form		8	Divide numbers in standard form
	9	Multiply fractions		9	Write a number in standard form in ordinary form		9	Add mixed numbers
	10	Multiply an integer by a fraction		10	Add fractions with different denominators		10	Subtract mixed numbers
Book 2	1	Divide fractions	Book 2	1	Subtract fractions with different denominators	Book 2	1	Multiply mixed numbers
	2	Divide an integer by a fraction		2	Increase by a percentage		2	Divide mixed numbers
	3	Divide a fraction by an integer		3	Decrease by a percentage		3	Given a fraction of an amount, find the whole amount
	4	Convert a mixed number to an improper fraction		4	Find a percentage change		4	Calculate a reverse percentage
	5	Convert an improper fraction to a mixed number		5	Share a quantity in a given ratio		5	Share in a ratio given part of the ratio
	6	Find a fraction of an amount		6	Simplifying algebraic terms- power of a power		6	Share in a ratio given the relationship between parts of the ratio
	7	Find a percentage of an amount		7	Expand single brackets and simplify		7	Factorise into double brackets- $a > 1$
	8	Find one number as a percentage of another		8	Expand double brackets and simplify		8	Factorise using the difference of two squares
	9	Equivalent ratios		9	Factorise into a single bracket by removing HCF		9	Solve a linear inequality and state the integers satisfying it
	10	Simplify a ratio		10	Factorise into double brackets- $a = 1$		10	Find the gradient of a line on a cartesian plane
Book 3	1	Direct proportion questions	Book 3	1	Solve linear equations with fractional solutions	Book 3	1	Find the equation of a line on a cartesian plane
	2	Inverse proportion questions		2	Solve linear equations with an unknown on both sides		2	Basic angle facts- multi-step questions
	3	Writing expressions		3	Solve linear equations involving brackets		3	Angles in parallel lines- multi-step questions
	4	Collecting like terms		4	Solve a linear inequality		4	Size of interior angles in a regular polygon
	5	Multiplying terms		5	Find the nth term rule of a linear sequence		5	Size of exterior angles in a regular polygon
	6	Dividing terms		6	Plot a line on a cartesian plane from its equation		6	How many sides on a regular polygon
	7	Expand a single bracket		7	Find the gradient of a line from its equation		7	Metric area unit conversions
	8	Substitution		8	Find the y intercept of a line from its equation		8	Metric volume unit conversions
	9	Solve linear equations with integer solutions		9	Find the y intercept of a line on a cartesian plane		9	Metric capacity unit conversions
	10	Write an inequality from words		10	Basic angle facts- base angles in an isosceles triangle		10	Perimeter of a semi-circle
Book 4	1	State an inequality in words	Book 4	1	Basic angle facts- angles in an equilateral triangle	Book 4	1	Area of a compound shape
	2	Generate terms of a linear sequence from its nth term rule		2	Angles in parallel lines- alternate angles		2	Area of a semi-circle
	3	Plot basic lines on a cartesian plane		3	Angles in parallel lines- co-interior angles		3	Surface area of a triangular prism
	4	Find the equation of a basic line on a cartesian plane		4	Angles in parallel lines- corresponding angles		4	Surface area of a pyramid
	5	Basic angle facts- angles around a point		5	Sum of interior angles in a polygon		5	Surface area of a cone
	6	Basic angle facts- angles on a straight line		6	Sum of exterior angles in polygon		6	Surface area of a sphere
	7	Basic angle facts- vertically opposite angles		7	Perimeter of a compound shape		7	Volume of a cone
	8	Basic angle facts- angles in a triangle		8	Circumference of a circle		8	Volume of a pyramid
	9	Basic angle facts- angles in a quadrilateral		9	Area of a trapezium		9	Volume of a sphere
	10	Metric length unit conversions		10	Area of a circle		10	Pythagoras- finding a missing shorter side
Book 5	1	Metric weight unit conversions	Book 5	1	Surface area of a cube	Book 5	1	Calculate a reverse mean
	2	Perimeter of basic shapes		2	Surface area of a cuboid		2	Mean from a frequency table
	3	Area of a square		3	Volume of a prism		3	Median from a frequency table
	4	Area of a rectangle		4	Pythagoras- finding a missing hypotenuse		4	Median class interval from a grouped data frequency table
	5	Area of a parallelogram		5	Mode from a frequency table		5	Estimated mean from a grouped data frequency table
	6	Area of a triangle		6	Modal class interval from a grouped data frequency table		6	Plot/interpret a comparative bar chart
	7	Mode from a list of data		7	Plot/interpret a line graph		7	Plot/interpret a composite bar chart
	8	Mean from a list of data		8	Plot/interpret a bar chart		8	Draw/interpret a pie chart
	9	Median from a list of data		9	Plot/interpret a scatter graph		9	Plot/interpret a stem and leaf diagram
	10	Range from a list of data		10	Identify a correlation from a scatter graph		10	Plot/interpret a frequency polygon
Book 6	Mix-up of Bronze Programme Ninjas Plus Skills		Book 6	Mix-up of Silver Programme Ninja Plus Skills		Book 6	Mix-up of Gold Programme Ninja Plus Skills	

Engaging Learners in Numeracy Through Darts

Did you know that darts isn't just a game of skill and precision, but also a fascinating world of mathematics? Recently, we came across an [insightful article](#) on the Professional Darts Corporation (PDC) website that explores the intricate maths behind the sport.

Let's take a quick peek into this numerical adventure:

1.Scoring Precision: Darts is all about hitting specific targets on the board to score points. But it's more than just throwing—it's about maximising your score with each dart. From basic addition to calculating averages and percentages, players constantly use maths to assess their performance and plan their next move.

2.Checkouts and Strategies: Ever wondered how darts players decide which targets to aim for when finishing a game? It's about finding the most efficient path to victory. By applying mathematical principles such as probability and optimisation, players determine the best checkout routes to swiftly close out a game and win.

3.Mental Maths Mastery: In the fast-paced world of darts, there's no time for calculators. Players rely on mental maths skills to calculate scores, checkouts, and potential paths to victory. Quick thinking and sharp numerical acumen are essential for staying ahead of the game.

By embracing the mathematics of darts, we not only appreciate the strategic depth of the sport but also sharpen our numeracy skills in a fun and engaging way.

Check out the article which also features videos you can play your learners to engage them in the sport and also some activity worksheets to use.

Until next time, keep aiming high and sharpening those numerical skills!

Reward your Ninjas

It's that time of year when you can start thinking about rewarding your learners for the progress they have made on their Ninja Score.

Take a look at the [Numeracy Ninjas Online Shop](#) which sells a range of merchandise to suit all tastes and budgets including stickers, fridge magnets, t-shirts, water bottles, phone cases and much more.



Spring and Summer Terms Prize Draws

We are delighted to announce the following subscribing schools as winners of the Spring and Summer Terms Prize Draws:

Spring Term Winners	Summer Term Winners
Mordiford CofE Primary School	Cambian School
Catshill Middle School	Orchardside School
Rougemont School	Heartlands Academy
Ullapool High School	St-Thomas More Catholic Academy
Thames Christian School	St Peter's School
Gaynes School	The Galloway School
The Abbey School	Newark Academy
Cedar Lodge School	Break Through School
Brackensdale Spencer Academy	The Elland Academy
Bromley Trust Academy	Ormiston Endeavour Academy

You have each won a selection of Ninjas-branded prizes to share with your students. These will be posted to you at the start of the summer term. Congratulations!

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