



GRADES GO UP!

Helen Doron Educational Group, since 1985



MATHRIDERS

Discover the
Wonderful World
of Maths

www.mathriders.com



A NOTE FROM THE FOUNDER AND CEO, HELEN DORON

Maths tables, memorization and drills -- many of us can recall that this was how we learned maths. What was often lacking was an understanding that learning maths can be a truly enjoyable experience.

The MathRiders programme was created to ensure that students enjoy learning as they study maths. An antidote to the traditional ways of teaching, the MathRiders methodology has been developed by experts in mathematics and education and is built on the concept that learning can be joyful, confidence-building and effective. Methodologies not associated with traditional maths learning -- small groups, positive reinforcement, games and even music are successful and effective learning tools for students of all ages.

We have come to understand that children are born with a natural understanding of maths and that maths skills continue to develop from the very beginning. Research and scientific studies agree that early maths training for children provide important benefits. Early learning creates changes in children's brains so that they become adept at problem solving; their brains are primed for learning advanced math concepts.

MathRiders makes maths real and meaningful and helps a child develop skills that are necessary in daily life. Naturally, their grades improve. Our classes create a rich mathematical environment and let children pursue their natural abilities and interests using mathematical language and a receptive, positive approach.

I welcome you to join us.

Yours Truly,

Helen Doron

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Math Riders

MathRider® Success²



ALL ABOUT MATHRIDERS

MathRiders makes maths real and meaningful and helps a child develop skills that are necessary in daily life. While all parents look for maths programmes that are effective and help children get ahead in school, they also hope to find a programme that is encouraging, motivating and fun. MathRiders students improve grades in school.

The MathRiders programme was created to ensure that students enjoy learning as they study maths. MathRiders has been developed by experts in mathematics and education as a response to the traditional ways of teaching and uses exploratory models and inquiry-based learning.

MathRiders classes create a rich mathematical environment and let children pursue their natural abilities and interests using mathematical language through a receptive, positive approach.

The MathRiders methodology has proven to be a successful format and is built on the concept that learning can be joyful, confidence-building and effective. Methodologies not associated with traditional maths learning —small groups, positive reinforcement, games and even music - are successful and effective learning tools for students of all ages. Developed by a team of experts in child development and education, the MathRiders curriculum offers the following programmes:

- MathRiders Starter for preschool children, ages 2-4
- MathRiders Junior for children, ages 4-11
- MathRiders Advanced for youth and teens, ages 11-19



THE KEY PRINCIPLES OF THE METHOD ARE:

1. The benefits of small group learning

MathRiders courses are taught in small groups of 4 to 8 students. Considered one of the most effective ways to learn and study, small group learning offers the best of both worlds. Students enjoy the advantage of group interaction as opposed to private tutoring and small groups allow for personal attention and interaction.

2. Motivated to learn by making it fun

The Helen Doron teaching method takes into account children's unique learning styles and uses games, movement, music and lots of fun to maximise kids' natural love of learning.

Highly experienced, specially trained teachers who are devoted to creating a nurturing and dynamic learning environment ensure that learning is enjoyable and effective. Whatever the age, children and youth enjoy MathRiders lessons which are highly structured, yet exciting and dynamic, at all times.

3. Confidence from positive reinforcement

Children thrive in an environment that encourages instead of judges, supports instead of criticises. Helen Doron-certified MathRiders teachers provide this positive encouragement in the classroom. The feeling of success brings motivation, builds confidence, which in turn, brings more success.

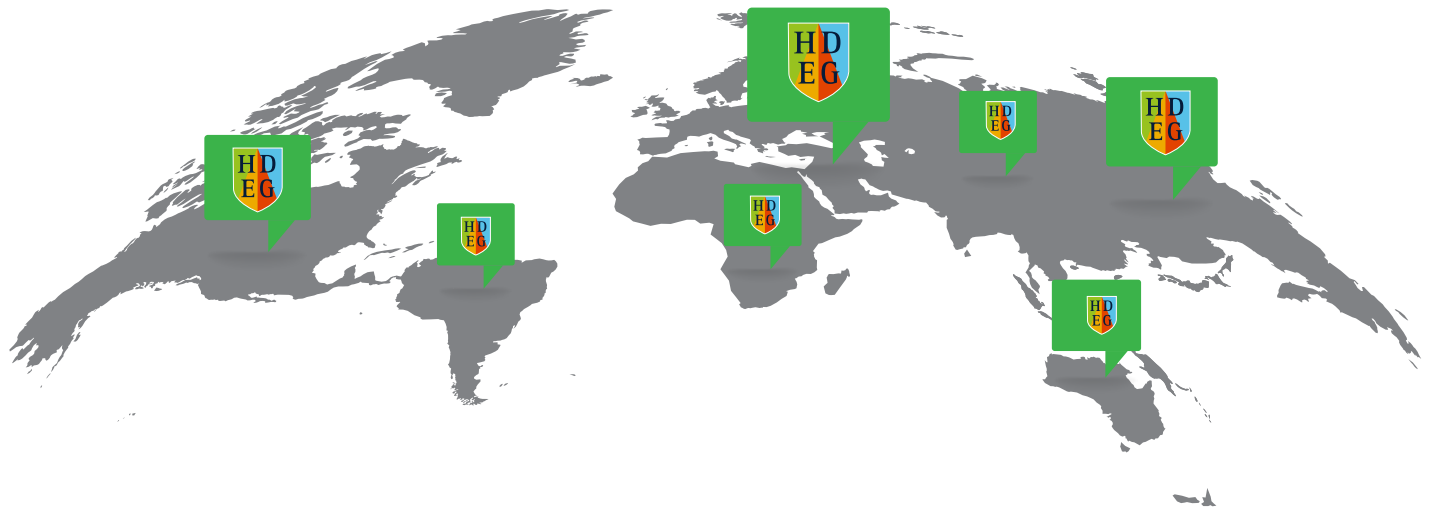
BEST IN-CLASS TEACHERS SET OUR PROGRAMMES APART:

MathRiders understands that to keep students engaged and interested requires a very special teacher. MathRiders teachers not only have appropriate maths expertise, but they have something special — a love of learning and teaching that students respond to. MathRiders teachers teach with excitement and enthusiasm and students develop a genuine love of maths.

Excellent Certified MathRiders teachers are the cornerstone of our system for creating confident maths lovers who consistently excel in their school maths classes. All MathRiders teachers receive comprehensive training with regular in-service workshops.

Teachers for the youngest ages, 2 to 4, need not have a degree in mathematics but must have an affinity for maths (math concepts and terminology) and the ability to nurture and motivate young learners. As levels advance, a teacher's knowledge and mastery of maths must progress. Teachers for the 4-11 age group should have a mathematical/scientific background. Teachers for the older children and teens, ages 11-19, must have successfully completed the most advanced Helen Doron MathRiders Teacher training courses and have a Bachelor's Degree in Mathematics or a related field.

A MATHRIDERS STUDENT JOINS A COMMUNITY OF 2 MILLION CHILDREN FROM OVER 35 COUNTRIES AROUND THE WORLD WHO HAVE LEARNT WITH THE UNIQUE HELEN DORON METHODOLOGY.



The Helen Doron Educational Group stands at the forefront of innovative educational systems, providing exclusive learning programmes and quality educational materials for babies, children and adolescents the world over since 1985. MathRiders, Helen Doron English, along with Helen Doron Kindergarten and Ready Steady Move! franchises today encompass almost 900 Learning Centres in over 36 countries in Europe, Asia and South America.

OVERVIEW



MathRiders youngest learners experience maths through the world around them. Small classes, a warm, nurturing environment and fun learning experiences give children ages 2-4 the perfect interactive introduction to maths.

Research has shown that from the earliest stages, infants, toddlers and pre-schoolers think about objects, events and people in mathematical concepts. Sorting, sequencing, adding and subtracting are all early skills that children learn, even before they know they are learning maths.

MathRiders teaches maths through play, movement and music. Through these methods, children can rehearse and refine their skills, practicing and researching what they are beginning to understand. Learning through play gives a child a sense of ownership of their abilities and promotes self-esteem. The programme introduces fun and energizing activities which prepare a learner for thinking and also develop coordination skills.

The mathematical knowledge that children gain before they begin school can have a significant influence on future performance. In this set of early maths programmes, we encourage children to think mathematically and acquire confidence in their abilities with specially designed fun, creative, mathematical activities.

MathRiders Starter offers two courses:

- Fun Boards
- Maths Basic



FUN BOARDS



Student age: 2 to 4



Suggested number of lessons: 36 lessons, once or twice a week



Lesson length: 60 minutes, or 30 minutes if taught twice weekly



Acquired skills:

- enhanced interest in maths
- mathematical and symbolic thinking
- communicate and connect mathematical ideas



Fun Boards is a play-based programme, where children are encouraged to explore, and experience mathematical concepts through hands-on activities. The programme provides many opportunities for free and structured play which meets children's varied needs and learning styles.

The Fun Boards were created to provide the classroom and teachers with a broad range of mathematical possibilities. Children hear a very simple short story about each board and then begin a wide range of child-led activities while sitting around the board and through exploring and actively researching the mathematical concepts both inside and outside of the classroom. All Fun Board themes are relevant to young children's lives, presenting meaningful learning contexts.

Children learn:

- To find the mathematics in everyday life
- To explore and engage in activities which support the learning of mathematical concepts
- To express themselves mathematically with self-confidence



Over in the ocean, in the deep blue sea, lays a charming colourful world of wonder. Come on in! Dive with me! Let's meet and count the swimmers of the sea!

MATHS BASIC



Student age: 3 to 5



Suggested number of lessons: 36 lessons, once or twice a week



Lesson length: 60 minutes, or 30 minutes if taught twice weekly



Acquired skills:

- sequencing and problem solving
- mathematical and symbolic thinking
- reasoning processes



This course builds a solid foundation in maths through a step-by-step approach which understands that young children acquire spontaneous mathematical knowledge through everyday activities and play. The repetition of activities and ongoing practice builds confidence and deep understanding. To construct these solid foundations children learn five maths components:

Number Sense and Operations: understanding whole numbers, realizing that numbers represent quantity - counting, ordering and comparing, as well as addition and subtraction.

In a child's language: *"I have one book. I would like one more candy"*

Pre-Algebra: identifying, copying and creating patterns and relations.

In a child's language: *"The sun rises every morning and sets at night"*

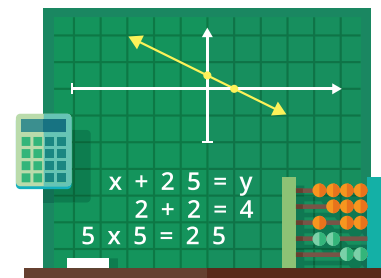
Geometry and Spatial Sense: identifying shapes and describing spatial relationships, reading maps, visualizing objects in space, and using geometry to solve problems. In a child's language: *"This is a box. I'm climbing up the ladder"*

Measurement: learning how to measure and compare; understanding the meaning of a unit and the concepts of length, weight, temperature, capacity, time, and money.

In a child's language: *"My tea is too hot. I run faster than..."*

Data Analysis: Using charts, tables, and graphs to organise, compare and interpret data.

In a child's language: *"This is the red group and this is the blue group"*



Success?



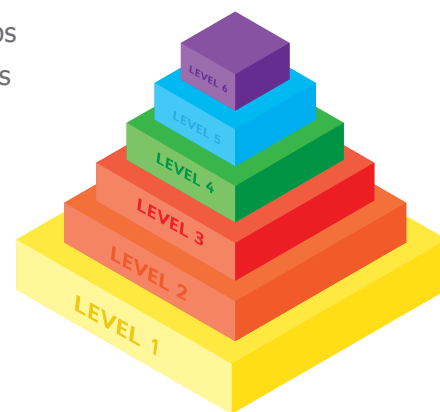
OVERVIEW



MathRiders Junior, is a 6 year programme based on a unique learning method that includes many illustrative activities to help students develop their mathematical reasoning skills. This programme has also had success in aiding students who may be experiencing learning challenges in regular school mathematics classes. This programme helps fill-in learning gaps and advances the student in order to improve grades, do well in school and build self-esteem. The programme includes support up to the level of the matriculation exam in mathematics (at the levels of 3 to 6 study units).

All 6 levels offer an encouraging environment that integrates both movement and music to build a solid maths foundation. Studies show that movement enhances learning and is an effective method for optimising brain development. The programme is filled with fun activities which include cross-body movements that have shown to build pathways in the brain. These specific movements are linked to improved brain coordination and better academic performance.

Music and song are included to activate the students' sense of sound which helps them solve mathematical problems. Music strengthens mental arithmetic abilities and inventive thinking. All lessons end with a song or story related to counting, the history of mathematics or the lives of great mathematicians — both men and women. MathRiders Junior students learn to connect to the human and emotional sides of maths, have people to emulate and ideas to ponder.





LEVEL 1



Student age: 4 to 5



Suggested number of lessons: 36 lessons, once a week



Lesson length: 45 minutes



Acquired skills:

- an understanding of level-appropriate maths theory
- understanding study skills
- age-appropriate maths concepts, according to level



MathRiders Junior courses introduce 4 core areas of learning, **Algebra**, **Geometry**, **Data Handling** and **Measurement**. Within these 4 areas, students are introduced to different concepts of a mathematical subject which are then revisited at increasingly higher levels, forming a pattern of spiral learning. Each time a topic is reintroduced, the child's knowledge and understanding is extended and consolidated.

Level 1 students learn:

Algebra: counting up to 10, recognition of numbers, writing numbers, comparison of numbers, ordering numbers, addition and subtraction

Geometry: 2D shapes (circle, square, rectangle and triangle), 3D shapes (cube, cuboid, pyramid, sphere, cone and cylinder)

Data Handling: problem solving

Measurement: length and weight



LEVEL 2



Student age: 5 to 6



Suggested number of lessons: 36 lessons, once a week



Lesson length: 45 minutes



Acquired skills:

- an understanding of level-appropriate maths theory
- developing study skills
- age-appropriate maths concepts, according to level



In this MathRiders Junior level, students are introduced to higher levels of **Algebra, Geometry, Data Handling** and **Measurement**. Again, as students learn more about these 4 areas, they are introduced to different concepts of a mathematical subject which are then revisited at increasingly higher levels, forming a pattern of spiral learning. Each time a topic is reintroduced, the child's knowledge and understanding is extended and consolidated.

Level 2 students learn:

Algebra: place value, counting up to xx, addition, subtraction, doubling, odd and even numbers, patterning and problem solving using addition and subtraction

Geometry: expansion of understanding of 2D shapes (circle, square, rectangle, and triangle), 3D shapes (cube, cuboid, pyramid, sphere, cone and cylinder), and introduction to the concept of symmetry

Data Handling: learn about time and how to create and organise a database (lists and tables)

Measurement: learn the concepts of length and weight

LEVEL 3



Student age: 6 to 7



Suggested number of lessons: 36 lessons, once a week



Lesson length: 50 minutes



Acquired skills:

- an understanding of level-appropriate maths theory
- developing study skills
- age-appropriate maths concepts, according to level



In MathRiders Junior level 3, students develop a greater understanding of **Algebra, Geometry, Data Handling** and **Measurement**. As students learn more about these 4 areas, they are introduced to different concepts of a mathematical subject which are then revisited at increasingly higher levels, forming a pattern of spiral learning. Each time a topic is reintroduced, the child's knowledge and understanding is extended and consolidated.

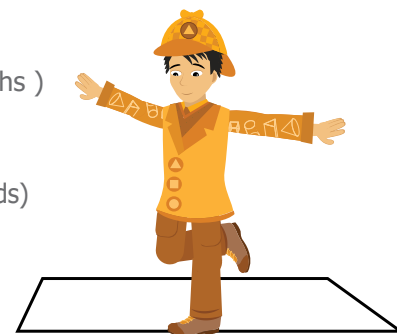
Level 3 students learn:

Algebra: addition, subtraction, multiplication and division (numbers xx to xx), halves and quarters, problem solving involving addition, subtraction and money, odd and even numbers and rounding numbers

Geometry: 2D shapes (circle, square, triangle, oval, semi-circle, pentagon, hexagon, heptagon and octagon) and 3D shapes

Data Handling: database handling (lists, tables, diagrams, pictograms and block graphs)

Measurement: measurement (length and weight), time, movement and direction (clockwise, counter clockwise, full turn, half turn, quarter turn, left, right, forward, backwards)





LEVEL 4



Student age: 7 to 8



Suggested number of lessons: 36 lessons, once a week



Lesson length: 60 minutes



Acquired skills:

- increasing understanding of level-appropriate maths theory
- effective study skills
- progressively advanced maths concepts, according to level



In MathRiders Junior level 4, students continue to develop a greater understanding of **Algebra, Geometry, Data Handling** and **Measurement**. As students learn more about these 4 areas, they are introduced to different concepts of a mathematical subject which are then revisited at increasingly higher levels, forming a pattern of spiral learning. Each time a topic is reintroduced, the child's knowledge and understanding is extended and consolidated.

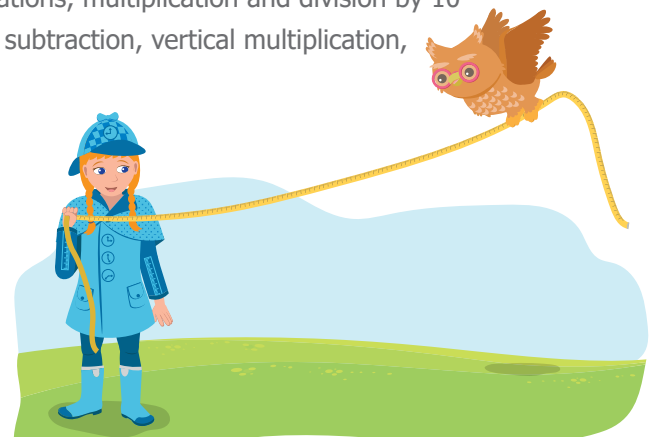
Level 4 students learn:

Algebra: place value up to 100,000, 4-digit numbers, order of operations, multiplication and division by 10 and 100, distributive property of multiplication, vertical addition and subtraction, vertical multiplication, division, fractions and number exploration.

Geometry: angles, types of triangles, types of quadrilaterals

Data Handling: data base - graphs

Measurement: time, rounding and estimation, measurement (length and weight)



LEVEL 5



Student age: 8 to 9



Suggested number of lessons: 36 lessons, once a week



Lesson length: 60 minutes



Acquired skills:

- an understanding of level-appropriate maths theory
- effective study skills
- progressively advanced maths concepts, according to level



In MathRiders Junior level 5, students advance their understanding of **Algebra, Geometry, Data Handling** and **Measurement**. As students continue to learn about these 4 areas, they are introduced to different concepts of a mathematical subject which are then revisited at increasingly higher levels, forming a pattern of spiral learning. Each time a topic is reintroduced, the child's knowledge and understanding is extended and consolidated.

Level 5 students learn:

Algebra: vertical addition and subtraction, long division, vertical multiplication, carry, borrow and place value, multiplication by multiples of 10, division by multiples of 10, order of operations, square numbers and cube numbers, prime numbers, fractions, introduction to decimals, roman numerals, negative numbers, probability

Geometry: diagonals, perimeters, line and rotational symmetry, areas, parallel, perpendicular and intersecting lines, 3D shapes (cube, cuboid, pyramid, sphere, triangular and hexagonal prisms, tetrahedron, cone, cylinder, square based pyramid, triangular, based pyramid) and net surface area, volume

Data Handling: handling data (bar graph, multiple bar graph)

Measurement: rounding, ratio, map scale, money conversion, relationship between metric units of length, the compass.

LEVEL 6



Student age: 9 to 11



Suggested number of lessons: 36 lessons, once a week



Lesson length: 60 minutes



Acquired skills: Students understand level appropriate maths theory. They learn skills to successfully organise and manage school maths.



In MathRiders Junior level 6, students have a more complete understanding of **Algebra, Geometry, Data Handling** and **Measurement**. As students continue to learn about these 4 areas, they are introduced to different concepts of a mathematical subject which are then revisited at increasingly higher levels, forming a pattern of spiral learning. Each time a topic is reintroduced, the child's knowledge and understanding is extended and consolidated.

Level 6 students learn:

Algebra: place value of decimals, multiplication and division, fractions, decimals, square numbers and cube numbers, percentages, properties of numbers, negative numbers and sequences

Geometry: quadrilaterals and plotting, area, reflections and symmetry, volume and capacity

Data Management: handling data (bar graph, multiple bar graph)

Measurement: ratio and proportion, time and money problems





Matematyka

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Poziom 5

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MathRiders™

Mathjogs
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مستوى 1
كتاب من سلسلة 1

Ollie The Owl Doesn't
Care Two Host

MATHRIDERS ADVANCED



Student age: 11 to 19



Suggested number of lessons: 36 lessons, once or twice a week



Lesson length: 90 minutes



Acquired skills:

- an understanding of level-appropriate maths theory
- organization and time management
- analytical thinking and advanced study techniques



MathRiders Advanced for students ages 11-19 gives students the skills, knowledge and support necessary to achieve better grades in school. The programme's purpose is to fill previous learning gaps and to advance the students until they realize their full potential in mathematics. For these ages, the programme is completely individualized and includes support up to the level of the matriculation exam in mathematics. The programme is optimal for all students; students having learning difficulties will benefit and thrive alongside more advanced students.

The course is designed to:

- develop students' self-confidence
- teach mathematical reasoning and mathematical abilities
- fill gaps in learning

MathRiders Advanced students also receive support for the maths they study at school and report a genuine understanding of mathematical concepts that become the basis for their creative thinking and problem-solving in maths.

Specially trained and degreed mathematics teachers develop, together with the student, a personalized study programme. The curriculum includes an initial assessment, free mapping of the student's ability at the beginning and throughout the study programme and weekly, ongoing feedback.



MATHRIDERS ADVANCED



01

MATHS SKILLS

MathRiders provides students with the opportunity to focus on specific maths skills that need mastery.

02

CONFIDENCE

The program is designed to help the students gain confidence in their ability to master the mathematical concepts and techniques.

03

CURRICULUM

The curriculum includes a well-structured process that provides individual drill and practice.

04

METHODOLOGY

A methodology is developed through mapping each student's needs and structuring an individual programme of studies to fulfil these needs.

05

RESOURCES

Each course offers the student extensive resources with a large array of exercise books in a variety of subjects covering a wide mathematical curriculum.

06

MATHS CONCEPTS

Students become more adept at problem solving, refine their understanding of maths concepts, facts, develop their skills in improve their thinking and reasoning, metacognition and attitude towards learning.

07

PROVEN LEARNING METHOD

Students follow a proven learning method which offers both group and individual learning activities that not only teach maths, but learning techniques and skills to encourage leadership and responsibility.



Contact Information

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