



MATHS INVADERS ONLINE

www.mathsinvaders.com



- * Powerful tables/math fact learning environment
- * Space Rescue: real time, multiplayer interactive game
- * Massive printable maths practice worksheet generator
- * Tightly linked to the curriculum
- * Develops mental maths agility and fluency
- * Incredible power cloaked in simplicity

Builds comprehensive rapid-fire maths power

Covers: Addition • Subtraction • Multiplication • Division • Fractions
• Decimals • Percentages • Numeration • Counting • Squares • Square Roots • Powers • Directed Numbers and more!

Fully Automated
Adaptive Learning



Automatically optimises each child's progression.

Liberatingly simple to use.

EdAlive®



Save the planet

from waves of descending maths questions! Only the correct answers will stop them. If you run into the invaders or they get to the bottom of the screen, you're INVADED!



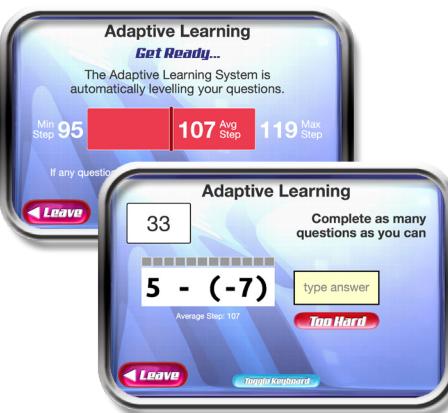
Advanced, Automated Adaptive Learning empowers teachers

Maths Invaders Online is powered by the advanced EdAlive Adaptive Learning System.

The system uses complex algorithms to automatically create an optimised learning pathway for each child.

- Analyses each student's responses in real-time.
- Rapidly establishes each student's base learning level.
- Automatically progresses each student.
- Optimally challenges each student.
- Frees teachers and parents from the tedium of analysing children's responses and manually creating learning sequences.

- Acts as an intelligent, dedicated tutor, continually monitoring and progressing each child.
- Liberatingly simple to use.



Created by highly experienced teachers

Maths Invaders Online has been created by highly experienced maths teachers over 25 years. There are over 850 incremental steps that feed into the Adaptive Learning system and guide students on their maths learning journey. It's a masterpiece!

Practice Section - Individualised learning

Students choose their own questions

- Enables teachers and students to choose the number facts to be practised and then allows for repetition until mastery is achieved.
- Focus on areas needing attention or extension by selecting the same topic at a lower or higher level.
- Extends the gifted and supports those for whom learning maths is a struggle.
- Choose Times Tables or from 128 Steps covering over 10 years of maths.

Massive Maths Content

Maths Invaders Online is designed to build comprehensive maths processing power, maths fact fluency and automaticity.

- The huge selection of topics and levels helps the struggler and dares the genius!
- Carefully sequenced to build maths ability step-by-step with new skills building on those already mastered.
- Levels and maths skills covered include:
 - Lower Primary activities:** counting & numeration, addition, subtraction.
 - Middle Primary activities:** numeration (place value), addition, subtraction, tables (multiplication facts), multiplication extension, division, fractions, squares, square roots, decimals.
 - Upper Primary/Lower Secondary activities:** numeration, addition, subtraction, tables, multiplication & division, fractions, decimals, percentages, powers, squares & square roots, +ve and -ve integers.

Galactic Campaign – Mastery Learning Mode



Galactic Campaign uses a classic mastery learning approach with motivational rewards to guide students through the 128 carefully graded Steps covering 10 years of maths.

- Students can begin in Zone 1 (Year 1) or use the “Skip Here” pre-test to commence at a higher grade.
- At each Step students are presented with 10 waves of Invader questions at Basic Speed. If they successfully repel the Invaders they are awarded a Star.
- At each Step students can produce bespoke PDF worksheets to help them strengthen their maths skills.
- Galactic Campaign enables the student’s learning to be self-directed. The teacher does not have to adjust their level and only needs to intervene when and where the Report shows a need.



Space Rescue with Adaptive Learning



Rescue your companions who are lost in space. Compete with each other to discover their space ships in this real-time interactive game.

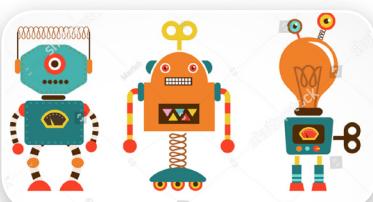
- Answer questions to recharge your scanner and play.
- Uses the inbuilt EdAlive Adaptive Learning engine to automatically adjust players to their optimal maths level.
- Each player competes at their own maths level.



Defender Level - Motivation for all

The Defender Level rewards students for each question answered in any part of Maths Invaders Online.

- Rewards effort independently from maths achievement so that even students who struggle with maths can achieve.
- There are 180 Defenders with each one requiring extra questions to be answered over the previous one.
- The images and names are designed to fascinate and motivate students to answer more and more questions.
- The Defender images are printable.



Ease and power for teachers

The Teacher Management section puts teachers in control. It is powerful yet quick and simple to operate.

- Powerful, flexible content selection allows activity to be focused according to the individual student’s needs.
- Create individualised learning pathways for each child.
- Allocate the same content settings to individuals, groups of students or the whole class at once.
- Historical reports to quickly give an understanding of how each child is progressing.
- Swiftly identifies each student’s strengths and weaknesses.
- Print or export user statistics and class progress reports.

Curriculum correlation

The tight integration between Maths Invaders Online and the curricula allows teachers to use Maths Invaders Online to target skills by outcome and use students' achievements as evidence of mastery of an outcome.

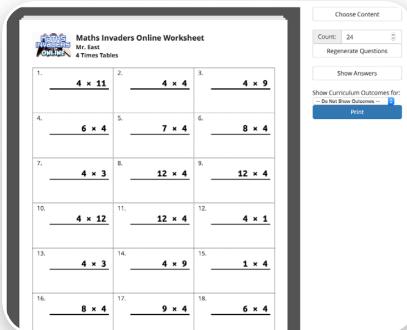
Each of the 850 Sub-topics has been correlated against specific outcomes for the following curricula:

- The Australian Curriculum.
- The NSW Syllabus.
- The Victorian Curriculum.
- US Common Core.
- UK National Curriculum.
- NAPLAN.



Age	5	6	7	8	9	10	11	12	13	14	15+
Numeration	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Times tables	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Addition/subtraction	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Multiplication/division			✓	✓	✓	✓	✓	✓	✓	✓	✓
Powers/roots						✓	✓	✓	✓	✓	✓
Fractions/decimals					✓	✓	✓	✓	✓	✓	✓

Unlimited Printable Practice Worksheets



- Generate unlimited numbers of Printable Practice Worksheets.
- Accessible by students, parents and teachers.
- Each Worksheet is specific to one of the 118 Topics or, if required the, 850 Sub-topics.
- Each Worksheet is unique and the number of variants unlimited
- Print answers and curriculum correlations.

Single Sign On with EdAlive Central



Fully integrates with EdAlive Central.

- Connects all EdAlive Online Learning Web Sites as one seamless whole.
- EdAlive Online Learning Web Sites share the same list of students, classes and teachers.
- Students can sign into all EdAlive Web Sites with one user name and password.
- Greatly simplifies your school administration.
- Also integrates with Office 365/Azure, Google, Facebook and SAML Single Sign On systems.

Any device, anywhere, anytime



- Works on Windows PCs, Apple Macs, Surface Tablets, iPads, Chromebooks and other Android tablets.
- Compatible with all major browsers.
- Unlimited Access 24/7 wherever there is an internet connection.
- No need for an installed App.
- Fully web delivered.

Revolutionise online learning

- Save your school valuable time
- Easy to implement and administer
- Incredible \$\$\$ savings for your school
- Totally individualised instruction for each student

Start your FREE Trial

1. Go to <https://central.edalive.com/go> and then follow the prompts.
 2. Be sure to select the option: I am a teacher and wish to manage my classes
 3. Choose any one of the EdAlive Web Sites from the library to begin your trial
- Enjoy your FREE trial for 2 weeks and then if required, convert the trial to a full subscription

What is maths fact fluency - automaticity?

Tables and number facts fluency is the quick and effortless (automatic) recall of basic math facts from long-term memory without conscious effort or attention. Every child should instantly recall that $6 \times 8 = 48$ without counting on their fingers or in their heads. Table (maths fact) fluency is an essential life skill that should be achieved before a child leaves primary school.

Why is fluency important?

Thinking mathematically requires the use of our working memory. If we have not achieved automaticity with our tables and number facts then we must use our working memory to calculate the tables and number facts at the same time as we are thinking mathematically. This extra mental load slows us down and can overwhelm our mental capacity. When we have mastered our tables they are recalled instantly leaving our working memory free to work mathematically. Students who don't have immediate recall of tables and number facts spend much of their time on basic computations instead of learning higher order math skills.

Builds fluency

Maths Invaders Online builds maths fact fluency enabling students to move math fact processing out of their working memory so they can focus their mental capacity on working mathematically.

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