

# MATHS INVADERS ONLINE

Ages 5 - 15+

MathsInvaders.com

6x8

- \* Powerful tables/maths fact learning environment
- \* Massive printable maths practice worksheet generator
- \* Develops mental maths agility and fluency
- \* Incredible power cloaked in simplicity

Boost Maths Age by 12 Months  
in just one school term!\*



***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 individualised Adaptive Learning system  
that automatically progresses each child**

**Liberatingly simple to use**



See page 4 for a FREE Trial for  
your school \*



Windows | Apple | Android | iOS

**EdAlive®**

# Builds comprehensive maths processing power, maths fact fluency and automaticity



**Ages 5-15+**



**Unlimited Questions, 850 incremental steps**

## Massive Maths Content

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.

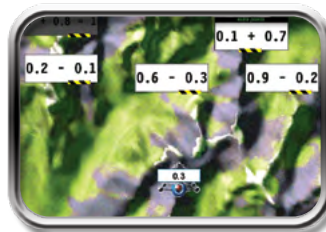
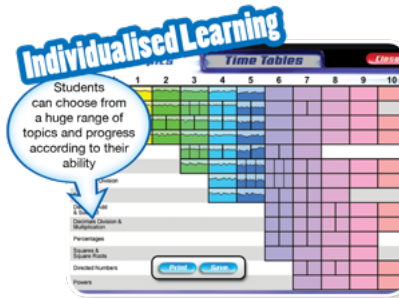
### Levels and maths skills covered include:

- 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.

## Power for teachers

The Tools and Reports 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.
- 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.



## A multifaceted maths resource of unparalleled power

Maths Invaders Online is concurrently:

- a tables/maths fact teaching environment.
- a comprehensive mastery & adaptive learning programme.
- a massive Printable Maths Practice Worksheet Generator.

## Builds incredible skills

Maths Invaders Online has a laser sharp focus on developing critical maths facts and computational skills.

- Develops mental maths agility and fluency.
- Teaches mental maths patterns, tricks and strategies.
- Builds skills that will stay with a student for a lifetime.

## Automated Adaptive Learning frees teachers



This revolutionary learning environment is powered by the individualised EdAlive Adaptive Learning System which automatically creates and maintains learning pathways for each student.

- Frees teachers from the tedium of analysing students' responses and manually creating learning sequences.
- Rapidly establishes each student's base learning level.
- Seamlessly analyses each student's responses in real-time.
- Automatically challenges and progresses each student by presenting Questions that are just right for them.
- Acts as an intelligent, dedicated tutor, continually monitoring and progressing each student.
- Liberatingly simple to use.





# 3 incredible game modes to motivate students

## Maths Invaders

### Former invader game play

Players defend the planet from waves of descending maths questions! Only the correct answers will stop them.

If players run into the invaders or they get to the bottom of the screen, they're **INVADED!**

- Students answer 100s of questions in minutes.
- Players can choose their own content.
- Teachers can pre-set content.
- Perfect for developing math fact fluency with addition, subtraction, multiplication and division.



## Galactic Campaign

### A mastery learning progression

Mastery learning controls 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 can produce bespoke PDF worksheets to help them strengthen their maths skills.
- 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.



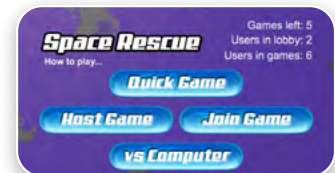
## Space Rescue

### Fully Interactive, Real-Time, Multiplayer game with Adaptive Learning

Players compete with each other by answering maths questions to rescue their companions who are lost in space.



- Each player competes at their own **adaptive** level, so every player has a real chance of winning.
- Play against your friends or the inbuilt smart Computer Players.
- Each player's actions directly affect the game play of others.
- Match Dad's decimals against 8 year-old Tim's tables and 15 year-old Kylie's computations with each automatically adjusted for their learning level.
- Uses the inbuilt EdAlive **Adaptive Learning** system to automatically adjust players to their optimal maths level.



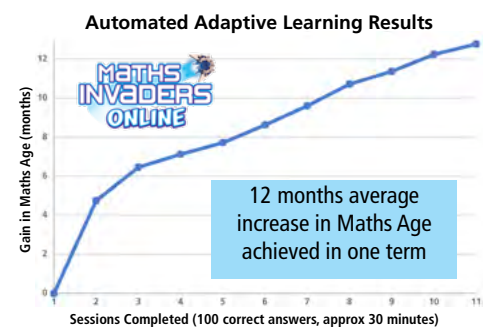
## Massive upgrade

The new Online edition of Maths Invaders builds on the former Maths Invaders CD edition with significant enhancements that revolutionise its educative capacity.

- **All the advantages of online delivery** including instant availability of data, home and school access, and data security.
- Students playing the Maths Invaders Online game are **much less distracted** as they now each complete Questions simultaneously from their own computer instead of taking turns on the one computer with up to 4 players.
- Features the revolutionary **EdAlive Adaptive Learning System** that automates each student's progression and releases teachers from the need to monitor and adjust the work for each student.
- The addition of: **Defender Level** rewards students for each question answered in any part of Maths Invaders Online, **Galactic Campaign** Mastery Learning progression, **Space Rescue** Multiplayer Game, **Printable worksheets** and **Curriculum Correlations**.
- **Integrated with EdAlive Central** making administration incredibly easy.

## \* Boost Maths Age by 12 Months in just one term!

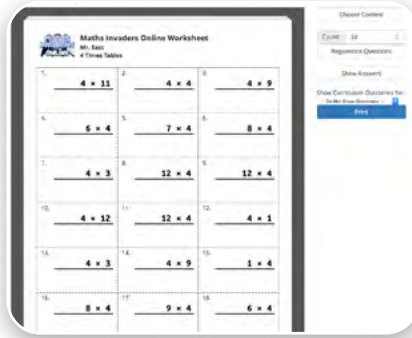
- Using the inbuilt Adaptive Learning system students are routinely boosting their Maths Age\*\* by an entire school year, in just one term.
- Achieved with little teacher input.
- Gains hold true regardless of age or maths ability.



\*\*Maths Ages are calculated using the rigorous Maths Invaders Online curriculum linked internal progressions that focus on numeration and computational maths. For details go to: <https://blog.mathsinvaders.com/2020/02/boost-maths-age-by-12-months-in-just-one-term/>

## Unlimited Printable Practice Worksheets

- Generate unlimited variations of Printable Practice Worksheets.
- Accessible by students, parents and teachers.
- Each Worksheet and its variations 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.



## Motivation through fun

At EdAlive we believe that learning should be fun and that students should be rewarded for academic achievement and **effort**.

- In addition to all the fun of the multiplayer game and an innate sense of academic progress, the in-built Achievement system rewards pure effort.
- Each Question answered correctly counts towards the student's Defender level.



Collect them all!

## Powered by EdAlive Central



Fully integrates with the EdAlive Central Learning Environment.

- Connects all EdAlive Online Learning Websites as one seamless whole.
- EdAlive Online Learning Websites share the same list of students, classes and teachers.
- **Single Sign On (SSO)** so that students can sign into all EdAlive Websites with one user name and password.
- Greatly simplifies your school administration.
- Integrates with Office 365/Azure, Google, Facebook and SAML Single Sign On systems.
- Class Roll Syncing with SAML 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. No Flash.

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## \* Start a FREE Trial

Go to [central.edalive.com/go](http://central.edalive.com/go) and then follow the prompts.

1. Be sure to select the option: **I am a teacher and wish to manage my classes.**
  2. Choose any one of the EdAlive Web Sites from the library to begin your trial.
- Enjoy your FREE 2 week trial.

## 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.

## What is maths fact fluency?

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 slows us down and can overwhelm our mental capacity.

## 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.