

Australian Curriculum Focused Sites

AAMT Top Drawer

<https://topdrawer.aamt.edu.au/>

A resource with support for fractions; mental computation; geometric reasoning; patterns; reasoning; and statistics.

ABC Education

<https://education.abc.net.au/home#!/resources/-/mathematics>

Thousands of free educational learning resources, videos, games, multi-media digibooks and articles for P – 10, all aligned with the Australian Curriculum.

Australian Curriculum Framework: Mathematics

<https://www.australiancurriculum.edu.au/f-10-curriculum/mathematics/>

The source of Curriculum descriptions and sequence of learning per year level.

Money Smart teaching resources (ASIC)

<https://moneysmart.gov.au/>

Each unit of work and digital activity has an Australian Curriculum mapping document.

ReSolve

<https://www.resolve.edu.au/>

Searchable tasks (F-10) with a focus on reasoning and problem-solving.

Scoutle (Mathematics)

<https://www.scoutle.edu.au/ec/acSubject?name=%22Mathematics%22>

Quality assured, free resources linked directly to each strand within the Australian Curriculum Framework: Mathematics.

TES Australia

<https://www.tes.com/en-au/teaching-resources>

Contains a variety of teacher-generated resources, including resources with links to the Australian Curriculum Framework.

Australian State-based Education Resources

FUSE Primary (Victoria)

<https://fuse.education.vic.gov.au/ResourcePackage/LandingPage?objectId=9c94977a-b0ff-42a9-9170-313badf8d705&SearchScope=Primary>

FUSE Secondary (Victoria)

<https://fuse.education.vic.gov.au/VC/Secondary?mathematics>

NSW: Resources to support Stages 1 to 3

<https://education.nsw.gov.au/teaching-and-learning/curriculum/key-learning-areas/mathematics/Early-Stage-1-to-Stage-3/resources>

NSW: Resources to support Stages 4 and 5

<https://education.nsw.gov.au/teaching-and-learning/curriculum/key-learning-areas/mathematics/Stages-4-and-5/resources>

Queensland Curriculum and Assessment Authority

<https://www.qcaa.qld.edu.au/p-10/aciq/learning-areas/mathematics/teaching>

The QCAA provides a suite of resources to support teachers of years P – 10.

South Australian Teachers and Leaders Resource

<https://acleadersresource.sa.edu.au/resources/working-with-curriculum/mathematics/>

The South Australian Teachers and Leaders Resource site has a great set of ideas and resources to look through.

International Sites

NCETM (National Centre for Excellence in the Teaching of Mathematics) (UK)

<https://www.ncetm.org.uk/>

Excellent resources for teaching for mastery.

NCTM Illuminations (US)

<https://illuminations.nctm.org/Search.aspx?view=search&type=ac>

Online, interactive resources for learners and educators to use; searchable and organised by year level and strand of Mathematics.

NRICH (UK)

<https://nrich.maths.org/>

Free, online mathematics resources for ages covering all stages of schooling. The activities are 'low threshold, high ceiling' with a focus on developing problem solving and they encourage exploration and discussion.

NZ Maths

<https://nzmaths.co.nz/>

Well-organised and a great resource for problem solving.

Problem Solving by Visualisation

Convince Me That (US)

https://docs.google.com/presentation/d/1_kMfjsrEGWtNbWT-nwrzbf5WB3C_u6vo3PvFquZA5I/edit#slide=id.g34d3ccf053_0_2697

A series of PowerPoint slides with a provocation per slide (K – 10).

Estimation 180

<http://www.estimate180.com/>

Activities to support measurement estimation.

Math for Love (US)

<https://mathforlove.com/>

A range of engaging challenges and games-based learning opportunities (K – 10)

Math Talks (also includes Pattern Talks)

<http://www.mathtalks.net/nt-5-8.html>

A series of provocations with examples of students' responses – some correct, others with misconceptions – which are very good discussion starters (4 - 10).

Open-Middle (US)

<https://www.openmiddle.com/>

A series of searchable tasks in strands, many using the 0 – 9 digits in challenges. All have multiple solutions (K – 12).

Same Surface, Different Deep Structure (SSDD) (US)

<https://ssddproblems.com/>

Searchable problems with a gentle entry problem and then associated, more demanding aspects explored (5 - 12).

Think Mathematically

<https://buildingmathematicians.wordpress.com/author/markchubb3/>

A resource by Mark Chubb with great sets of ideas and activities.

Visualpatterns.org (US)

<http://www.visualpatterns.org/>

A set of pattern-growth problems, which are great for thinking algebraically, particularly to continue patterns and find rules (K – 10).

Which One Doesn't Belong (US)

<http://wodb.ca/index.html>

Sets of 4 visuals where the learner must give a reason why each doesn't belong to the set (P – 12).

Would You Rather (US)

<http://www.wouldyourathermath.com/would-you-rather-38-2/>

Choose between two provocations and decide mathematically which is best (P – 10).

Technology Focussed Sites**Casio**

<http://www.casio.edu.shriro.com.au/>

Calculator technology and classroom resources.

Desmos

<https://www.desmos.com/calculator>

Significant teaching resources and access to powerful graphing software.

Geogebra

<https://www.geogebra.org/?lang=en-AU>

Graphing capabilities and many dynamic simulations.

Texas Instruments

<https://education.ti.com/en-au>

Lots of teacher and student support.

Virtual Manipulatives

Coin Toss

<https://www.random.org/coins/>

Dice (4-sided to 20-sided)

<http://a.teall.info/dice/>

Isometric Drawing Tool

NCTM: <https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Isometric-Drawing-Tool/>

Pattern Blocks

<https://apps.mathlearningcenter.org/pattern-shapes/>

Playing Cards

<https://www.random.org/playing-cards/?cards=5&decks=1&spades=on&hearts=on&diamonds=on&clubs=on&aces=on&twos=on&threes=on&fours=on&fives=on&sixes=on&sevens=on&eights=on&nines=on&tens=on&remaining=on>

Spinners

NRich: <https://nrich.maths.org/6717>

NCTM: <https://www.nctm.org/adjustablespinner/>

Various Tools from Toy Theatre

<https://toytheater.com/category/teacher-tools/virtual-manipulatives/>

Subscription Required Sites (With Fees)

Maths 300

<https://maths300.com/>

An excellent set of stimulating lessons worth talking about! Australian made.

Mathematics Task Centre

<http://mathematicscentre.com/taskcentre/>

From the developers of many of the Maths 300 suite.

Sites with Tasks and Philosophy

Australian Mathematics Trust (AMT) (AUS)

<https://www.amt.edu.au/sandpit>

The Sandpit is a set of challenging problems for Years 3 – 12 that are freely available as are some other resources from the AMT. Others, such as the Maths Challenge, Maths Enrichment or the annual Australian Mathematics Competition have a cost.

Dr Paul Swan (WA Maths Educator)

Lots of really good games and activities.

<https://drpaulswan.com.au/planning/>

<https://drpaulswan.com.au/product-category/games/>

<https://drpaulswan.com.au/number-resources/>

<https://drpaulswan.com.au/teaching-at-home/>

Math for Love (US)

<https://mathforlove.com/>

Range of engaging challenges and many games-based learning opportunities (K – 10).

Mathematics Task Centre: Maths at Home Support

<http://www.bom.gov.au/tas/forecasts/hobart.shtml><http://www.mathematicscentre.com/news.htm>

A great site that has been developed to support home learning from the people who brought us Maths 300 – Doug Williams and Charlie Lovatt. It features free tasks from the extensive Mathematics Task Centre Suite.

Peter Liljedahl

<http://www.peterliljedahl.com/>

Building thinking classrooms and using vertical whiteboards.

SiMERR

<https://simerr.une.edu.au/>

SiMERR provides resources for educators, including the successful Quick Smart program.

YouCubed (US)

<https://www.youcubed.org/>

Home of Jo Boaler, famous for her work on a Maths growth mindset. Many engaging tasks organised in Year levels (P – 10).