

Some sources of rich mathematical tasks

From the internet

Balanced Assessment

From 1993 to 2003, the Balanced Assessment in Mathematics Program existed at the Harvard Graduate School of Education. The project group developed a large collection of innovative mathematics assessment tasks for grades K to 12, and trained teachers to use these assessments in their classrooms. The library of over 300 mathematics assessment tasks developed during the project remains freely available through this web site. Teachers may use these materials in their own classrooms at no cost.

<http://hgse.balancedassessment.org/>

Brilliant

Students understand concepts and build their problem-solving skills with thousands of free problems and examples in maths, science, and engineering.

<https://brilliant.org/>

Dan Meyer's resources

"My pedagogical mission lately is to help students develop a question before answering it and to create a headache before offering them aspirin."

<http://blog.mrmeyer.com/>

Estimation 180

Building number sense one day at a time.

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

Mathalicious

Real world lessons for middle and high school students challenging them to think critically about the world. (6 – 12)

<http://mathalicious.com/>

Maths 300

a subscription, web-based service which aims to support teachers in the delivery of mathematics education. It aims to resource members with extensive notes for, at least, 300 exemplary, rich maths lessons (K-12).

<http://www.maths300.com>

Mr Barton Maths

Free Rich Maths Tasks and Activities

<http://mrbartonmaths.com/teachers/rich-tasks/>

NCTM Illuminations

Illuminations works to serve you by increasing access to quality standards-based resources for teaching and learning mathematics, including interactive tools for students and instructional support for teachers.

<http://illuminations.nctm.org/>

NCTM Math Forum Problems of the Week Resources.

Check out the NCTM website for other valuable resources.

<http://www.nctm.org/Classroom-Resources/CRCC/Math-Forum-Problems-of-the-Week-Resources/>

Number strings

includes an explicit emphasis on the role of realistic contexts — believable or imaginable situations to kids — in mathematical investigations. In addition, contexts are designed so that generalizable mathematical models, such as the open number line, will naturally emerge and be used by students.

<https://numberstrings.com/>

nzmaths

links to many rich mathematical tasks as well as other resources for maths teachers.

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

The Math Forum at NCTM

The Math Forum is a leading centre for mathematics and mathematics education on the Internet.

<http://mathforum.org/>

The **Nrich** Maths Project Cambridge, England.

The home of rich mathematics. The Nrich project provides free mathematical resources for students and teachers including challenging and engaging activities to develop mathematical thinking and problem-solving skills.

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

Nrich - Integrating Rich Tasks - Intro + Full Pdf Link

<https://nrich.maths.org/6089>

This series of professional development resources is designed to support teachers working together, thinking about, and integrating rich tasks into classroom practice.

The Shell Centre for Mathematical Research

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

With links to many websites that have rich mathematical tasks, including:

- Bowland Maths
- Primas
- Math Assessment Resource Service (MARS)

<http://map.mathshell.org/index.php>

Visual patterns

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

Click on a pattern to see a larger image and the answer to step 43. What is the equation? (F - 12)

Which one doesn't belong

<http://wodb.ca/>

a website dedicated to providing thought-provoking puzzles for math teachers and students alike. There are no answers provided as there are many different, correct ways of choosing which one doesn't belong.

Would you rather

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

Gives students two alternatives to choose one from, then to justify their choice, using maths.

Youcubed

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

Our main goal is to inspire, educate and empower teachers of mathematics, transforming the latest research on math into accessible and practical forms. We know from research how to teach math well and how to bring about high levels of student engagement and achievement but research has not previously been made accessible to teachers.