Continuing Education
Open to All
David Wiley, PhD
Center for Open and Sustainable Learning
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“Open Educational Resources”
But why?
Top down educational programs just don’t work.
Don't ever make the mistake that you can design something better than what you get from ruthless massively parallel trial-and-error with a feedback cycle. That's giving your intelligence much too much credit.  

Linus Torvalds
Infrastructure creates opportunities...
...for local capacity to innovate.
Infrastructure enables but doesn’t drive development
People innovate on top of the infrastructure
Openness fuels innovation
What is educational infrastructure?
Books, textbooks, workbooks, movies, recordings, overheads, slides, &c.
Digital content is magic
Everyone needs access to the open educational infrastructure
Who knows what they’ll do with it?
UNESCO and others are developing the open educational infrastructure
OnLine Learning

Sustainability in Asia and the Pacific

Conserving the natural resource base while promoting development

Open educational resources that you can freely use as a learner for self-study and as an educator in your teaching.

Enhancing Strategic Decision-making
Understanding the role of strategic environmental assessment

The most innovative environmental policy tool
Improving project design through Environmental Impact Assessment
Welcome to MIT's OpenCourseWare:
a free and open educational resource (OER) for educators, students, and self-learners around the world.

MIT OCW:

- Is a publication of MIT course materials
- Does not require any registration
- Is not a degree-granting or certificate-granting activity
- Does not provide access to MIT faculty

Learn more about MIT OCW...

**Partners in Sharing**

MIT OpenCourseWare is grateful for the support of Ab Initio Software Corporation.

"I find the course materials very helpful and to the point. I not only refer to OCW several times a week myself, but also ask my computer science students to consult MIT OCW. I look forward to more courses..."

— Sajid Latif, engineer and educator in Pakistan

Read more World Reaction...
Algebra

From Wikipedia, the free encyclopedia

This article is about the branch of mathematics. For other uses, see Algebra (disambiguation).

Algebra is a branch of mathematics concerning the study of structure, relation and quantity. The name is derived from the treatise written by the Persian Muslim mathematician Muhammad bin Mūsā al-Khwārizmī titled (in Arabic كتاب الجبر والمقابلة) Al-Kitab al-Jabr wa-l-Muqabala (meaning "The Compendious Book on Calculation by Completion and Balancing"), which provided symbolic operations for the systematic solution of linear and quadratic equations.

Together with geometry, analysis, combinatorics, and number theory, algebra is one of the main branches of mathematics. Elementary algebra is often part of the curriculum in secondary education and provides an introduction to the basic ideas of algebra, including effects of adding and multiplying numbers, the concept of variables, definition of polynomials, along with factorization and determining their roots.

Algebra is much broader than elementary algebra and can be generalized. In addition to working directly with numbers, algebra covers working with symbols, variables, and set elements. Addition and multiplication are viewed as general operations, and their precise definitions lead to structures such as groups, rings and fields.

Classification

Algebra may be divided roughly into the following categories:

- **Elementary algebra**, in which the properties of operations on the real number system are recorded using symbols as "place holders" to denote
Open Course Ware

Someday, perhaps in the very near future, it’s possible that the world will no longer have a need for this site. That’s because a handful of forward-thinking institutions have started putting the complete contents of their courses online, for free. MIT is leading the field with 1100 courses online and recently other universities have joined in. In the US, these include Johns Hopkins University School of Public Health, Utah State University, and Tufts. A large block of schools in China has committed to OCW, and schools in Japan and Vietnam are also on board.

From the MIT site:

MIT OCW is a large-scale, Web-based publication of the educational materials from the MIT faculty’s courses. This unique initiative enables the open sharing of the MIT faculty’s teaching materials with educators, enrolled students, and self-learners around the world. MIT OCW provides users with open access to the syllabi, lecture notes, course calendars, problem sets and solutions, exams, reading lists, even a selection of video lectures, from 1,100 MIT courses representing 34 academic disciplines and all five of MIT’s schools. The initiative will include materials from 1800 courses by the year 2007.

Link to the OpenCourseWare Finder, which will help you search the available
100s of texts
1,000s of courses
100s of 1000s of modules
So we’re done?!!?
Infrastructure isn’t the end, it’s just the first lap of the race.
Now we have to build capacity
And support the experiments
Localizing the open educational infrastructure
I have personally committed myself to making it a priority, for education is a fundamental human right, set forth in the Universal Declaration of Human Rights and the International Human Rights Covenants, which have force of international law. To pursue the aim of education for all is therefore an obligation for States.

Koichiro Matsuura,
Director General of UNESCO
EDUCATION FOR LIBERATION
Educational content is infrastructure.
Infrastructure needs to be open to everyone
Education for All
Education for All
Thank You