

COMPUTER SCIENCE *Unplugged*

Tim Bell
tim.bell@canterbury.ac.nz
csunplugged.org

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Computer Science Unplugged

- ✦ Free resource for teachers
- ✦ Expose children to great ideas in Computer Science
- ✦ Without using computers!
- ✦ Recommended in ACM K-12 curriculum
- ✦ Response to gap between supply and demand for graduates
- ✦ Sponsored by Google
- ✦ 15 years in the making

Formats

- ✦ Classroom activities
- ✦ Show
- ✦ Books
- ✦ Videos
- ✦ Translations
- ✦ Versions for teachers, children, parents

Goals

- ✦ Communicate what Computer Science is
- ✦ Reach minority/disadvantaged groups
- ✦ Create interest in Computer Science
- ✦ Decision makers: kids, parents, teachers
- ✦ Have fun!

Sample activities (all available free from the website)

- ✦ Parity
- ✦ Binary numbers
- ✦ Binary birthday cake
- ✦ Image compression
- ✦ Human-computer interaction
- ✦ Sorting network
- ✦ Finite state machines (Pirate map)

Unplugged ++

- ✿ New website: csunplugged.org
- ✿ More videos
- ✿ New activities/topics
- ✿ More ideas for presentation and followup
- ✿ Free material
- ✿ User contributions – feedback, activities, forum
- ✿ Links to local curricula

Online resources

csunplugged.org	The main site, with links to videos, free book download, and soon to have all activities and hints available.
google.com/educators	Free lesson plans and ideas, and a free download of the Unplugged book
video.google.org	Search this for downloadable videos of the Unplugged activities (available in four languages!)
www.cs.washington.edu/WhyCSE/	Videos about careers in computer science, particularly for women
tim.bell@canterbury.ac.nz	Contact for more information