

## **“An Electrical Engineer Plans an Electrically Safe OUTDOOR CONCERT”**

**Contributed by Marie Knox  
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**(I found this to be a very successful and fun way to teach scale drawings.)**

This is a FREE project that can be used with electrical trades, HVAC, construction trades and other students to demonstrate workplace math applications. Order as many FREE copies of the 16-page glossy student workbook as you need as well as a teacher's guide from:

Enterprise for Education  
“Math at Work M-3”  
1316 Third Street, Suite 103  
Santa Monica, CA 90401

The activities include:

Sizing the site

Laying out the site

Determining how much electricity the concert needs

Deciding how big the generators must be and where they will be placed

Getting electricity from the generators to the equipment

Circuits and circuit safety

“All the Classroom is a Stage . . . and It Needs a Whole Lot of Cable” (construction of a complete scale version of the stage & backstage with all generators and cable layout)

Home Project: Prevent an Electrical Fire in Your Home!

Electrical Safety