

## Technology and the Schulwerk

Tim Purdum

AOSA 2009

[timpurdum.com](http://timpurdum.com)

[musicman@cfu.net](mailto:musicman@cfu.net)

### Basic Concept

Technology, whether it be a computer, projector, camera, iPod, or a pencil and paper, should always **serve** the learning and creative process. In order for this to happen, it must meet some basic criteria:

1. **Easily Accessible:** Hardware and software must be available at all times or for extended periods, not on a per-period "checkout" basis.
2. **Simple Setup:** Most music teachers have at most five minutes between classes and grades. Technology should take 2-3 minutes at most to turn on and use.
3. **Better Than the Alternative:** In order to use new technology, there should be an **obvious advantage** to teaching this way. This could include:
  - a. Quicker access/recall of material
  - b. More visual and auditory stimulation
  - c. Access to new materials (e.g., world music and dance video sources)
  - d. Interactivity: drawing the students into the creative process

**Technology for its own sake is worse than pointless, it is actually *harmful* if it replaces hands-on active music-making and dance with passive "audience" activities or sterilized musical "game" activities. Our children need more *real* experiences, not more virtual ones. Use with care.**

### Hardware

1. **Tablet PC:** [en.wikipedia.org/wiki/Tablet\\_PC](http://en.wikipedia.org/wiki/Tablet_PC). Windows XP, Vista, or 7 computer that can accept a digitized pen as the input device, allowing handwriting and drawing applications.
2. **LCD Projector:** Projects the computer image on a screen.
3. **Still Camera:** Most models now have the ability to shoot short video segments. In my opinion, this cheap option is quicker and more versatile than using a cassette or disc type camcorder. Simply pull out the card, stick it in the computer, and voila! Instant video!
4. **OTHER OPTIONS: SMART Board, MIMIO Board, HD Camcorder**

### Software

1. **Journal:** Standard note-taking program on Tablet PC.
2. **Sibelius:** [www.sibelius.com](http://www.sibelius.com). I am using version 3. Newest is version 5, which includes pre-made Orff ensemble templates!
3. **Windows (Live) Movie Maker:** [download.live.com/moviemaker](http://download.live.com/moviemaker). The old WMM is for XP, the newer "Live" version is for Vista & Windows 7. Both work just fine for basic editing and mixing.
4. **Microsoft PowerPoint:** [office.microsoft.com/powerpoint](http://office.microsoft.com/powerpoint). This is a standard component of MS Office, and is the basic projector software used by millions of people for presentations, lectures, etc. Fully compatible with Tablet PC "ink".

5. **Ink Art:** <http://www.microsoft.com/windowsxp/downloads/tabletpc/experiencepack/overview.msp>. Part of the Windows XP Experience Pack for Tablet PC. Includes brushes, pencils, crayons, full color palette.
6. **Audacity:** [audacity.sourceforge.net](http://audacity.sourceforge.net). If you happen to have regular access to a lab for students to do computer work, this cross-platform, FREE music sequencing program will let them do multi-track recording and arranging.
7. **OTHER OPTIONS:** Finale, OpenOffice (free), Mac Software Suites (iMovie, iTunes, GarageBand, Keynote, etc.)

## Online Resources

1. **WikiMedia Commons:** [commons.wikimedia.org](http://commons.wikimedia.org). Source of public domain and creative commons images. In other words, permission granted to use, as long as you give credit.

### Images (from WikiMedia Commons)

- a. *Flutuanes* by Paulo Cesar
- b. *Below* by Tyler Ramsey
- c. *Abstract No. 222132* by Danny Hennesey

4. **Youtube:** [www.youtube.com](http://www.youtube.com). Online source for videos on just about anything.

### Video Clips

- a. **Saint Marks Bell Tower, Five Bells, San Marco, Venice:** [www.youtube.com/watch?v=LFkC6xL84vw](http://www.youtube.com/watch?v=LFkC6xL84vw)
- b. **Sonos Handbell Ensemble Performing the Allegro Maestoso from Handel's Water Music:** [www.youtube.com/watch?v=D6gUPW9Vsws](http://www.youtube.com/watch?v=D6gUPW9Vsws)
- c. **Wind Chimes:** [www.youtube.com/watch?v=AbJ\\_Jg\\_CX-c](http://www.youtube.com/watch?v=AbJ_Jg_CX-c)
- d. **A Beautiful Wind Chime:** [www.youtube.com/watch?v=xMAXQjW6JFM](http://www.youtube.com/watch?v=xMAXQjW6JFM)
- e. **Gong and Tibetan Singing Bowl Meditation:** [www.youtube.com/watch?v=3hncJzoAiAw](http://www.youtube.com/watch?v=3hncJzoAiAw)
- f. **Gankogui:** [www.youtube.com/watch?v=RWMbPI7cJ4I](http://www.youtube.com/watch?v=RWMbPI7cJ4I)
- g. **Gamelan Gong Kebyar:** [www.youtube.com/watch?v=ldPMifPbngc](http://www.youtube.com/watch?v=ldPMifPbngc)

# Moon Canon

Timothy Purdum

5

Pale, sil - ver lum - in - esc - ence, Lead - ing me from night \_\_\_\_ to night,

Lone - ly steps I tra - vel on - ward, Search - ing for a friend - ly light.