

Technology Guide for Music Educators

This exciting book, written by educators for educators, details the best software and hardware tools for use in 6 key areas of music technology: Electronic Musical Instruments, Music Production, Music Notation Software, Technology-Assisted Learning, Multimedia, and Productivity Tools/Classroom & Lab Management. It is full of helpful charts summarizing hundreds of software titles and hardware instruments and equipment, with in-dept descriptions of those employed most by music teachers.

Each chapter is full of practical, field-tested suggestions for employing technology in music education.

Every music educator that uses technology, or plans to, should have this important resource on his or her bookshelf!

The contributing authors are nationally recognized experts in the field of music technology:

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TI:ME Publications Ordering Information

The Technology Guide for Music Educators

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We recommend the following:

Phone Orders:

Internet:

1. **Soundtree**: 800-963-8733

2. **Soundtree**

3. **TI:ME Commerical Members**

Bookstores may order *Technology Guide* directly from the distributor:

Thomson Course Technology 25 Thomson Place Boston, MA 02210 Toll Free: 800-354-9706 Fax: 800-487-8488 Online: <http://www.course.com/support/contact.cfm>

Technology Assisted Learning Software for Music Educators

CHAPTER 4

(draft just before submission to the publisher – some notes to the editor remain)

This section of the TI:ME software guide will present a list and overview of the best and most used instructional software titles and Internet sites. Some of the most notable programs are featured with screen shots and additional descriptions. These are found in alphabetical order by title below. Other software programs, are listed in charts at the end of the chapter.

SCOTT, WE NEED TO CONSIDER THE ORDER OF THESE. PERHAPS THERE IS A BETTER WAY.

Instructional Internet Sites

Web sites include text, pictures, recordings, and movies as common elements. Recently sites have expanded to include interactive lessons and activities. Because these lessons run within the Internet browser, they run on all platforms (Windows and Macintosh). Because these lessons are available on the Internet, they are accessible from any Internet connection in or out of the classroom. This article identifies several interactive sites with useful lessons for music students and teachers.

Note Reading with Score This site offers practice identifying notes in the treble, bass, alto and tenor clefs. The computer maintains a score which the students may print and submit as proof of having completed the assignment. This site is useful for beginning musicians of all ages. Also available at this site are lessons on major and minor key signatures. This site requires JavaScript.

1 of 13 Right = 1 Wrong = 0 Score = 100 Sound Effects

Name this note.



ABCDEFG



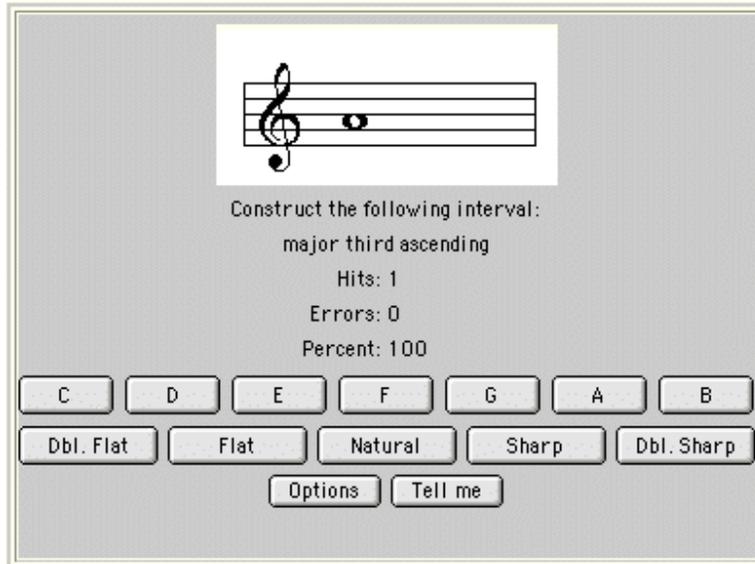
Yes, That's it.
Previous Next About

This template was developed by Dr. C. Floyd Richmond,

Note Reading with Score

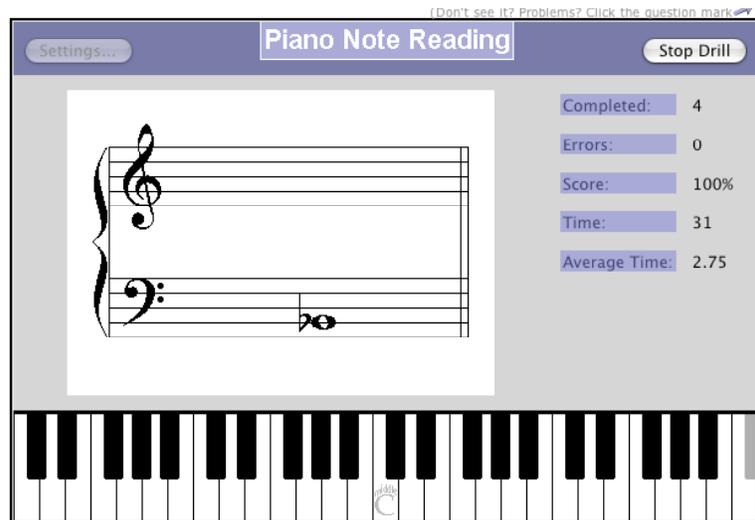
<http://courses.wcupa.edu/frichmon/usetech/musicalflashcards/aaaindex.html>

Intervals, Chords, and Scales This site offers practice identifying and writing intervals, chords and scales. A score is maintained in the window as the student works. This site is ideal for students in music theory classes or for those preparing for undergraduate entrance exams in music. Java is required.



Intervals, Chords and Scales
<http://www.teoria.com/exercises/index.htm>

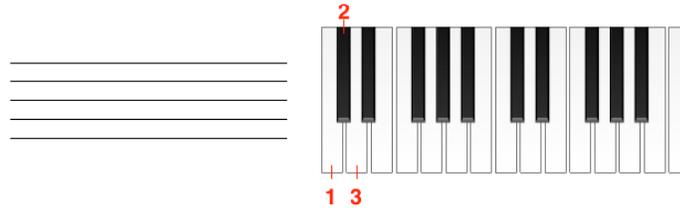
ETheory This site provides practice on Note Reading, Piano Note Reading, Paced Note Reading, C-Clef Note Reading, Key Signatures, Interval Drills, Scale Building, Chord Drills.



ETheory
<http://www.etheory.com>

Music Theory This site provides explanations of and practice on simple and complex music theory concepts. Topics range from note identification, intervals, scales, and chords to Neapolitan and augmented sixth chords.

Steps and Accidentals



- A **whole step** is the same distance as two half steps.
- Key 1 to Key 3 is a whole step. (The first half step is from 1 to 2, the second from 2 to 3)

Copyright © 2000-2005, Ficci Adams
<http://www.musictheory.net/>



Music Theory

<http://www.musictheory.net>

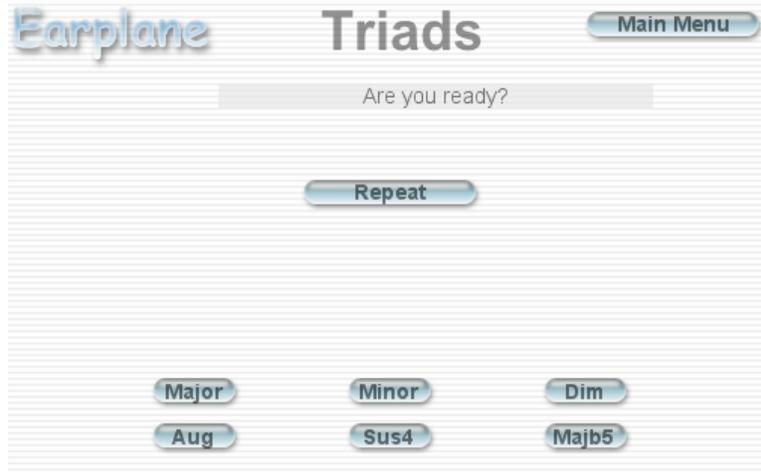
Big Ears This site offers practice in the aural identification of intervals. Also available is a piano keyboard which, when clicked, plays notes and announces the intervals played. Java is required.

Copyright © 1996, 1997 Michael Ossmann.

Big Ears

<http://www.ossmann.com/bigears/>

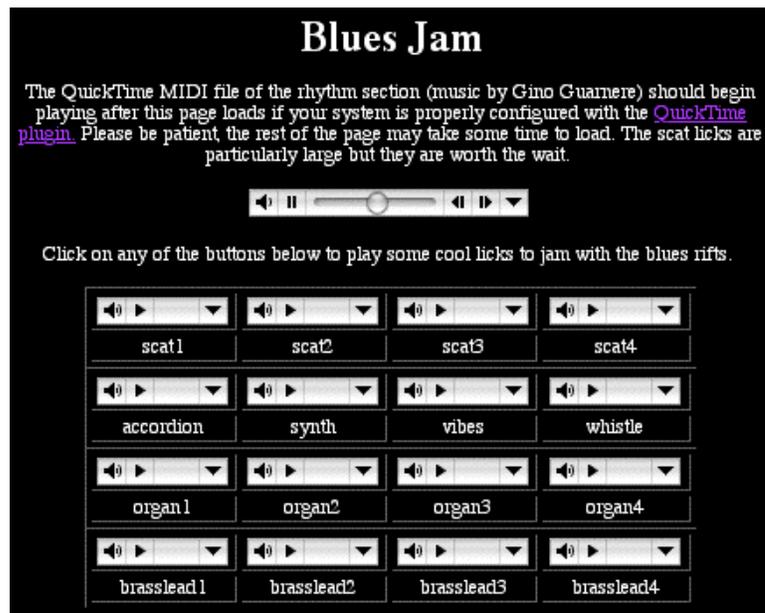
Ear Plane This site provides ear training practice identifying intervals, chords, rhythms, modes, melody.



EarPlane

http://earplane.com/modules/earplane_main/

Blues Jam This site allows students to create real-time musical performances in a blues style. The computer plays a 12 bar blues progression while the student selects melodies to be used at various times in the performance. This site requires QuickTime.

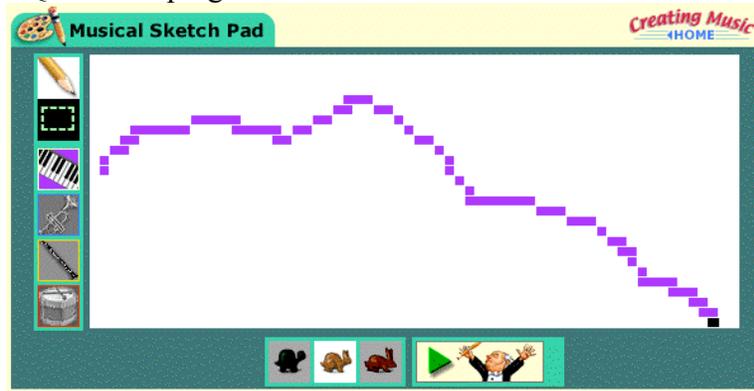


Blues Jam

<http://www.stevenestrella.com/IWP/bluesjam/bluesjam.html>

Creating Music This web site offers six activities for young children. The musical sketch pad (shown in figure 6 below) allows children to trace the contour of a melody using a variety of timbres. Once written the melody may be played in a slow, medium or fast tempo. Also available on this site are Music Puzzles, Playing with Music, Rhythm Band, Cartoon Conductor and Melodic Contours activities. This web site requires Java and the

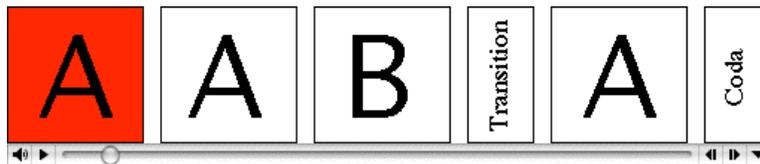
Shockwave and Quicktime plugins.



Creating Music

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

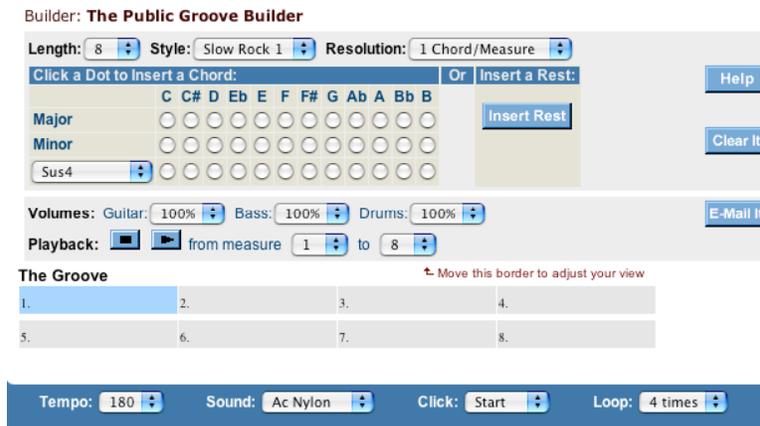
Musical Call Charts This site contains a number of formal call charts for familiar pieces. Included are excerpts from the Nutcracker ballet (see figure 7 below), Bach's Little Fugue in G minor, Scott Joplin's Entertainer, and more. Most of the files use MIDI for playback. For better results, play a CD recording of the music and use the forward and backward buttons on the movie control bar to advance in time with the music. This site requires QuickTime.



Musical Call Charts - Trepak from the Nutcracker Ballet

<http://courses.wcupa.edu/frichmon/tddl99/index.html>

Groove Builder This site allows the user to enter chords which the computer uses to generate accompaniments in various styles. This is a nice tool for exploring chord progressions and musical style. This site is similar to Band-In-A-Box. This site requires JavaScript.



Groove Builder

<http://www.wholenote.com/default.asp?iTarget=http%3A//www.wholenote.com/builder/builder.asp>

Chord Find This site provides guitar fingerings for chords in various positions. It also contains a “chord finder” for four string instruments.

ChordFind
www.chordfind.com

Guitar Secrets Revealed!
click here!

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Looking for an offline Guitar Chord Dictionary? Powered by WS64.com

Normal Chords: Special Chords:

C Major C/E
C#/Db Minor C/F
D dim C/G
D#/Eb aug D/F#
E sus D/A
F 6 D/Bb
F#/Cb 7 D/B
G maj7 D/C
G#/Ab 9 E/B
A add9 E/C#
A#/Bb m6 E/D
B m7 E/D#

Variations MIDI Chord Info

E A D g b e
0 0 0 0 0 0

Reverse Chord Find

Links WS64.com Credits Privacy

- Personalized Lessons
- Top 100 Tab Sites
- Sheet Music
- GuitareTAB
- Guitar Books
- Top 100 Guitar Sites
- Guitar Search Engine
- Find MIDI
- Tabrobot
- GuitarSeek
- LyricCrawler.com
- Guitartabs.Net
- PJs Guitar Chords
- United TABS of America
- MIDI Explorer
- WorldGuitar.com
- Fresh Tabs
- WS64 as Musician!

Find Lyrics Find MIDI

Do you play any 4-string instrument? Try the brand new 4-string ChordFinder

Chord Find

<http://www.chordfind.com>

Classical MIDI Archive This site provides access to over 12000 MIDI, mp3 and other audio files by over 500 composers. These files may be opened in notation programs for study, or played for listening activities. The site also contains biographies of numerous classical composers. The site provides downloads of up to five files daily for free. Additional downloads require a subscription.



Classical MIDI Archive

<http://www.prs.net>

Browser resources required to run these lessons are listed below. In most cases, these will have come pre-installed on modern computers.

JavaScript - JavaScript is a programming language currently built into Netscape and Internet Explorer. Support for JavaScript exists in these browsers to some degree down to version 2 and 3 respectively. If your browser does not properly display pages which require JavaScript check the preferences in the Edit menu to confirm that JavaScript is turned on. If your browser is older (pre-version 4), you may wish to download the latest version. Netscape is available at <http://www.netscape.com>. Internet Explorer is available at <http://www.microsoft.com/>. Mozilla and Firefox are available from <http://www.mozilla.com>.

Java - Java is a programming language currently built into Netscape and Internet Explorer. It is similar to JavaScript in many regards. It may be turned on or off in the browser preferences. If problems occur, check to see that it is on. For the latest information see the Microsoft site (<http://www.microsoft.com>) or the Sun site (<http://java.sun.com>).

QuickTime - QuickTime is a multimedia playback system which is essential for many musical applications on the web. Developed by Apple Computer, QuickTime runs in both Windows and Macintosh browsers. The latest version is available at <http://www.apple.com/quicktime/download/>.

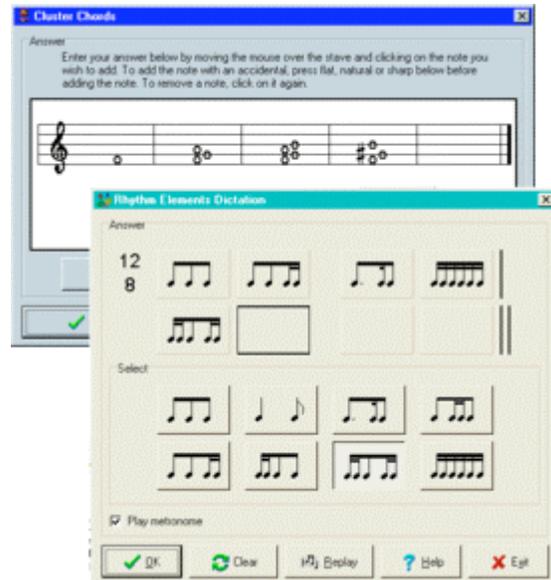
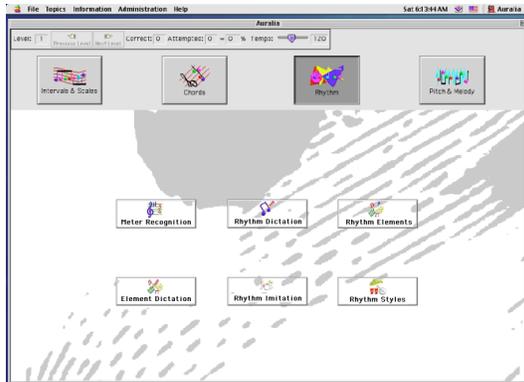
Flash and Shockwave – Flash and Shockwave are plug-ins which allow interactive programs developed with Macromedia Director or Flash to run in a browser window. The latest version is available from <http://www.macromedia.com>.

Auralia

Publisher: Sibelius

Platform: Macintosh, Windows

<http://www.sibelius.com>



Selected Topics

- Identify and sing intervals, and notes from chords
- Melodic and rhythmic dictation
- Identify cadences
- Recognize and correct poor tuning
- Sing upper or lower part of a two-part phrase
- Write down chord progressions

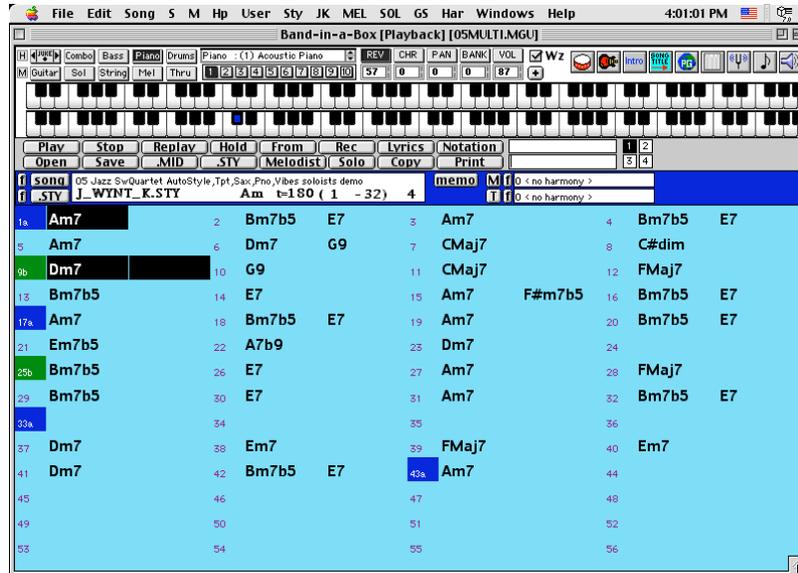
This program provides drill and practice on aural skills. A main menu offers choices including intervals and scales, chords, rhythms, and pitch and melody. A submenu offers six or more subtopics for practice. This program is appropriate for students in Aurals and Sight Singing class and in Music Theory in high school and early college. The computer calculates a score for each lesson. The teacher may set a minimum level of proficiency for each lesson which students must achieve before advancing to the next level.

Band In A Box

Publisher: PG Music

Platform: Macintosh, Windows

<http://www.pgmusic.com>



Band In A Box

This software is covered in the music production section also (SCOTT CONFIRM) but also includes numerous opportunities for instructional use. The software permits students to enter a chord progression then hear it played on piano, bass, and drums, and occasionally other instruments. This permits students to experiment with chord progressions as they compose songs. The software is able to perform the music in literally hundreds of jazz, rock, and popular styles. The student has the opportunity to study the various styles of music as well as to experiment with different styles in their own compositions. Students may also use the generated accompaniments to practice their improvisation skills. The software is also capable of generating solos in the style of a number of famous soloists such as Miles Davis and Charlie Parker. One feature of the solo generator permits the software to generate a “trading four” solo, in which the computer plays four measures, then the student plays a four measure musical reply. There are opportunities for students to record their performances and burn them to CD. The software, although not structured in a tutorial or drill manner, may be used in an instructional manner. Because the software does not contain “lessons,” there is no record keeping, but students may use the software to create projects demonstrating their learning.

PG Music makes numerous programs supplementing Band In A Box.

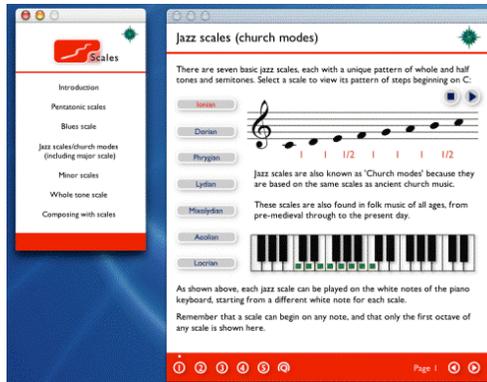


Compass and Tracker

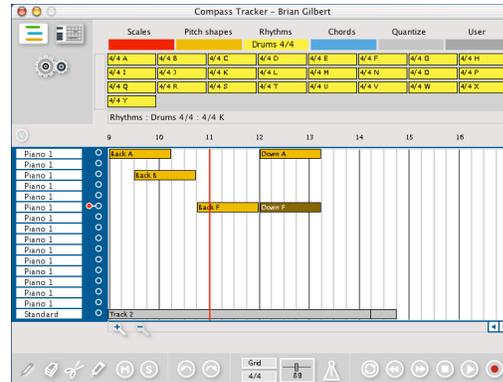
Publisher: Sibelius

Platform: Macintosh, Windows

<http://www.sibelius.com>



Compass



Tracker

Compass explains numerous compositional techniques. It is organized according to the elements of music (melody, harmony, rhythm, etc). Each element includes sub-concepts. Melody, for example, includes contour, variation, inversion, retrograde, and more. A unique feature of this program is that its lessons are connected to hand-on activities using the Tracker program. Tracker is a musical sequencer with numerous building blocks. Tracker also permits musical elements to be manipulated in many ways. For instance, a melody may be created or recorded, then various scales may be applied to the melody. The melody will be rewritten using that scale. Various rhythms may also be applied, so that a plain quarter note scale can become quite syncopated. The ability to drag and drop scales and rhythms onto existing musical material provides the opportunity to create themes and variation and new compositions. The integration of these two programs is unique. These programs do not contain recordkeeping.

Essentials of Music Theory

Publisher: Alfred

Platform: Macintosh, Windows

<http://www.alfred.com>

Unit 6 Lesson 25a

Whole Steps, Half Steps and Enharmonic Notes

The distance from any key on the keyboard to the very next key above or below, whether black or white, is a half step (H).

Half step Half step Half step Half step Half step Half step

Click on the notes to hear the pitches.

Unit 3 Lesson 11e

Time Signature

$\frac{2}{4}$ and $\frac{3}{4}$ both have 4 as the bottom number, meaning a quarter note receives 1 beat.

The difference is that $\frac{2}{4}$ has 2 beats per measure, while $\frac{3}{4}$ has 3.

Change $\frac{2}{4}$ to $\frac{3}{4}$

Unit 6 Lesson 22

Flats

Click on the button that corresponds to the flatted note. Click on Tim to begin.

EXERCISE

Unit 2 Lesson 9b

Whole, Half and Quarter Rests

A whole rest means to rest for a whole measure.

The whole rest hangs down from the 4th line.

A half rest is equal to half of a whole rest.

The half rest sits on the 3rd line.

A quarter rest is equal to one quarter of a whole rest.

Alfred Essentials of Music Theory

Volume I (Beginner):
Lessons 1-25

Volume II (Intermediate):
Lessons 26-50

Volume III (Late Intermediate):
Lessons 51-75

- Treble and Bass clefs
- Optional Alto and Tenor clefs
- 4/4, 3/4 and 2/4 time signatures
- Flats, sharps, naturals
- Whole & half steps
- Dynamic signs, tempo markings and articulation
- Up to 8th notes & rests

- Major scales
- Key signatures
- Intervals
- 3/8 and 6/8 time signatures
- Triads and V7 chords

- 1st and 2nd inversions of triads
- Figured bass
- Chord progressions
- Minor scales and triads
- Modes
- Harmonizing and composing melodies
- 12-bar blues chord progression and blues scale
- Basic forms of music

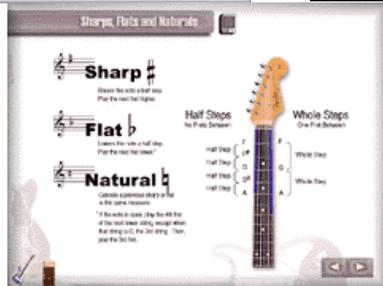
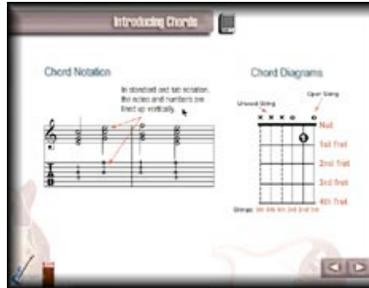
This software contains tutorial lessons on the fundamentals of music. It is organized into three sequential volumes of six units each. The tutorials are interactive and include practice on concepts presented. Record keeping is included. The software would be appropriate for grades four through a college music fundamentals course. Purchase options include single station licenses and network licenses.

Guitropolis

Publisher: Alfred

Macintosh/Windows

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



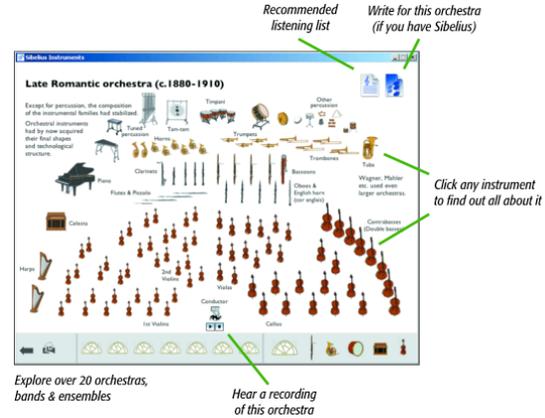
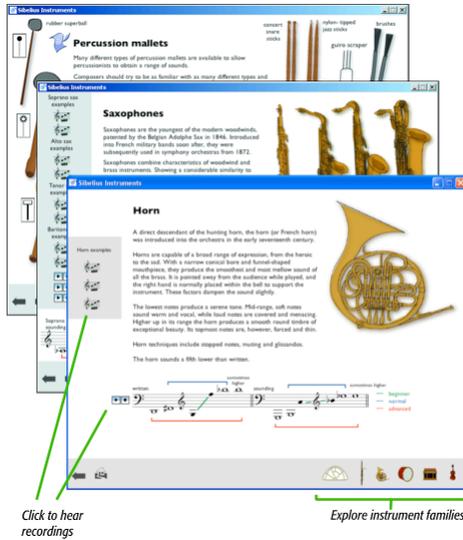
Guitropolis is a series of lessons introducing students to the guitar. In addition to knowledge of the guitar, students learn to read notes and play chords. The program is rich with multimedia.

Instruments

Publisher: Sibelius

Platform: Macintosh, Windows

<http://www.sibelius.com>



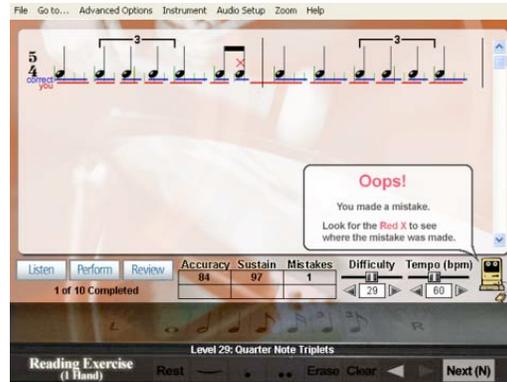
Instruments contains a wealth of information about strings, woodwind, brass, percussion, and keyboard instruments, and ensembles of instruments. The main menu allows students to explore the families of instruments, the history of the orchestra, and to take a quiz on the instruments. The explanation of each instrument includes pictures of the instrument, examples of how each instrument sounds, and information on related instruments. For example, the Trumpet page will include pictures and sounds of the Cornet, Bugle, Piccolo Trumpet, etc. Listening examples vary and include a scale over the commonly used range of the instrument, excerpts of commonly performed solos and orchestral pieces featuring those instruments. Students may explore the software in a non-sequenced, non-structured manner, following their interests, or they may complete teacher generated worksheets as they seek specific information. Teachers may use this program to teach the sounds of the instruments to elementary students, or to recruit students for band or orchestra.

Interactive Musician

Publisher: Alfred

Platform: Macintosh, Windows

<http://www.alfred.com>



Interactive Musician is a series of instructional programs which permits students to practice pitch, rhythm, and sight-singing performance.

Jazz

Publisher: MiBac

Platform: Macintosh, Windows

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

The screenshot shows the MiBac Jazz software interface. The window title is "Blues.data". The interface displays a piano, bass, and drum part for a 12-measure blues. The piano part shows chords: C7 (measures 1-4), F7 (measures 5-8), and C7 (measures 9-12). The bass part shows chords: G7 (measures 1-4), F7 (measures 5-8), and C7 (measures 9-12). The drum part shows a simple pattern. The interface includes a control panel at the bottom with settings like "M.M. = 120", "P1", "B2", "D10", "Loop OFF", "Jazz 44", and "Open".

MiBac Jazz

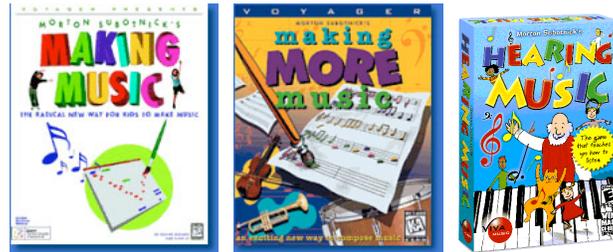
This software is covered in the music production section also (SCOTT CONFIRM) but also includes numerous opportunities for instructional use. The software permits students to enter a chord progression then hear it played on piano, bass, and drums. This permits students to experiment with chord progressions as they compose songs. The software is able to perform the music in numerous jazz, rock, and popular styles. The student has the opportunity to study the various styles of music as well as to experiment with different styles in their own compositions. Students may also use the generated accompaniments to practice their own improvisation skills. Because the software does not contain “lessons,” there is no record keeping, but students may use the software to create projects demonstrating their learning.

Making Music
Making More Music
Hearing Music

Publisher: EMedia

Platform: Macintosh, Windows

<http://www.emediamusic.com/academic/edcurriculum.html>



Making Music enables very young students to compose and arrange music. All instructions in the program are verbal. This makes the program approachable by non-readers. Some of the musical concepts such as inversion and retrograde, however, could be used on a much higher level. Still the program presents them in a way that is approachable by young students. In this program, students navigate to a main menu where they may select from a musical building block activity (they arrange musical phrases into familiar and new melodies), a composition activity (they draw notes using various scales and instruments on an artists canvas and the computer plays the contour), a rhythm generator (they create rhythms by dragging sounds onto a timeline, and games. Since the primary purpose of the software is composition and arranging, record keeping is not included. The software would be appropriate for grades one through six, although it would be most useful in grades three through six. Making More Music is similar in organization and content to Making Music, but with additional compositional activities and games. A third program in the series, Hearing Music, encourages students to experiment with sounds and encourages their ability to recognize contrast and repetition in music.

MIDISaurus

Publisher: Macmillan - McGraw Hill

Platform: Macintosh, Windows

http://www.town4kids.com/us_ecom/products/midi_about.htm



Volumes 1 to 4 (Selected Topics)

- Listening Skills
- Music Composition
- Keyboard Fundamentals
- Note Reading Fundamentals
- Intervals
- Accidentals
- Binary and Ternary Form
- I-V7 Chords
- Introduction To Orchestral Instruments
- Sing-Along Songs

Volumes 5-8 (Selected Topics)

- Time and Key Signatures
- Musical Notation of Intervals; Tempos; Articulations: Legato, Staccato and Fermata;
- Keyboard Accompaniment Patterns
- Scales (Major, blues, pentatonic)
- Introduction To the Great Composers
- Chords (Major, Minor, Diminished and Augmented)
- The I-IV-V7 and i-iv-V7 Chords
- Introduction To Musical Instruments of the World
- Musical Form (Introduction, Question and Answer, Sequence, Theme and Variation)

Volumes 9-12: Focus Volumes

- Rhythm
- Notation
- Musical Instruments
- The Great Composers & Their Music

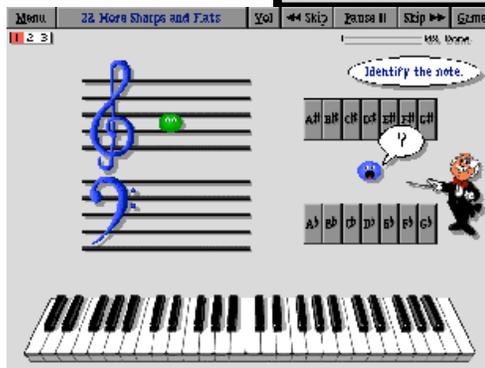
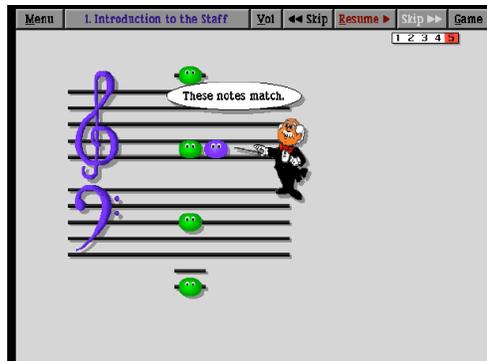
MIDISaurus is a collection of tutorial music lessons and games in 12 volumes. The software is organized so that a tutorial movie is followed by an interactive activity. The lessons start with contrasting concepts such as loud and soft and advance through more complex content including instruments of the orchestra. The lessons would be most appropriate for grades one through six, with younger students finding them most valuable. This software includes a printable grade report for each student.

Music Ace I & II

Publisher: Harmonic Vision

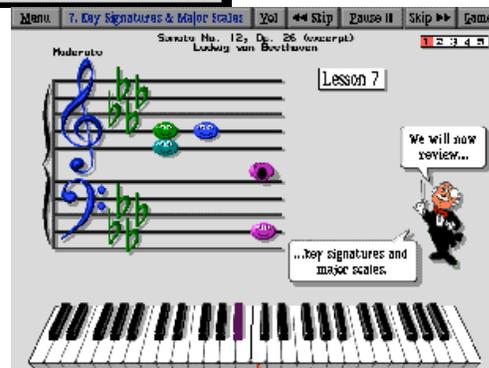
Platform: Macintosh, Windows

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



MUSIC ACE I (SELECTED TOPICS)

- Staff & keyboard relationship
- Pitch identification
- Note reading
- Listening skills
- Sharps & flats
- Intro to key signature
- Keyboard basics
- Major scales
- Octaves
- Treble, bass & grand staff
- Whole & half steps



MUSIC ACE II (SELECTED TOPICS)

- Standard notation
- Music fundamentals including key signatures, intervals, major and minor scales, and harmony
- Rhythmic concepts including tempo, note values, rests, counting, measures, time signatures, syncopation.
- Musical skills including echoing, comparing rhythms, rhythmic dictation, ear training, and distinguishing melodies and harmonies.
- Rhythmic and Melodic Composition

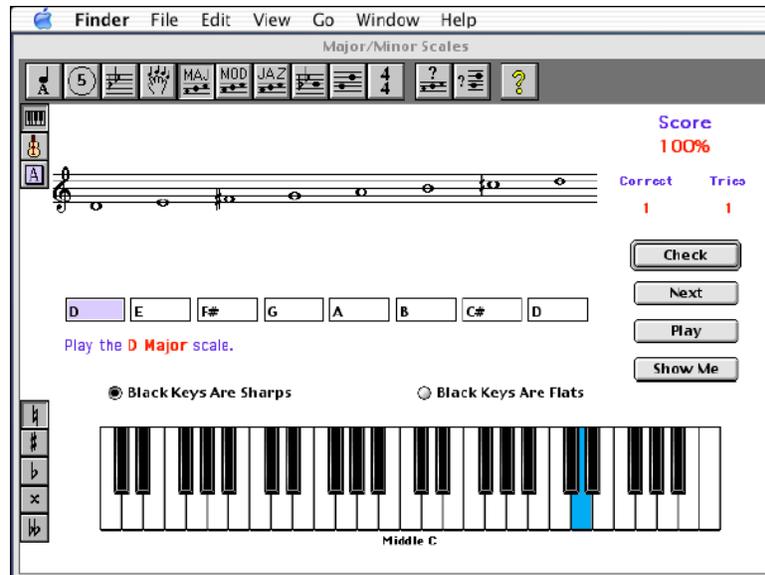
Music Ace I contains tutorial lessons on the fundamentals of music. The lessons focus on learning the symbols of music notation and the keyboard. Each unit begins with an animation featuring engaging musical tunes, and Maestro Max, a cartoon conductor who dances and speaks with an Austrian accent. The lessons are organized into approximately twenty-four units, with three to six activities and game per unit. A Doodle Pad is available where students may listen to and manipulate existing tunes, and compose and save their own. Record keeping is included in the lessons. The software would be appropriate for grades three through a twelve, although it would be most appealing to younger students. Purchase options include plans for a varying number of users. Music Ace II is similar in organization and content to Music Ace I, but with an increased emphasis on rhythmic skills.

Music Lessons I and II

Publisher: MiBac

Platform: Macintosh, Windows

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



MUSIC LESSONS I (SELECTED TOPICS)

- Note Reading
- Circle of Fifths
- Key Signatures
- Five Finger Positions
- Major / Minor Scales
- Modes
- Jazz Scales
- Scale Degrees
- Intervals
- Note / Rest Durations
- Scales / Modes / Jazz Scales Ear Training
- Intervals Ear Training

MUSIC LESSONS II (SELECTED TOPICS)

- Chord Elements
- Triads
- Triads Ear Training
- Seventh Chords
- Seventh Chords Ear Training
- Roman Numeral Chord Identification

This software is appropriate for music theory classes. Music Lessons I features basic concepts such as note recognition, but also includes key signatures and the circle of fifths. Music Lessons II includes additional work with chords. The lessons are most appropriate for high school or college music theory. Students are graded on each lesson and must achieve mastery on each level. The program includes record keeping.

Performance Assessment

Publisher: MakeMusic!

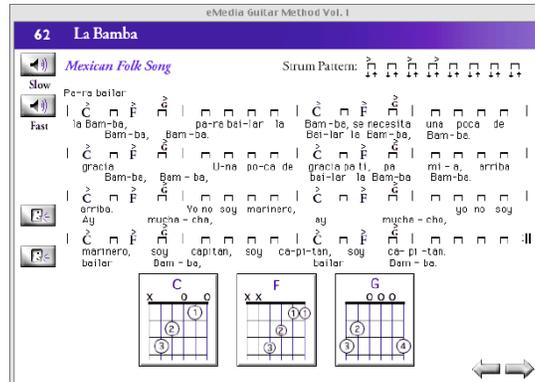
Platform: Macintosh, Windows

<http://www.makemusic.com>

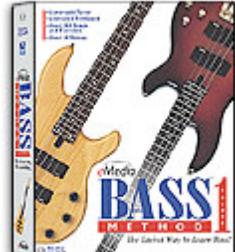
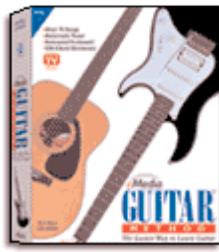
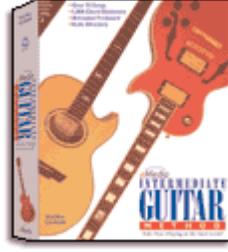
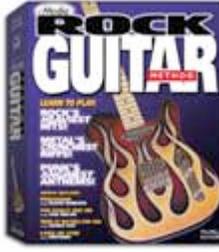
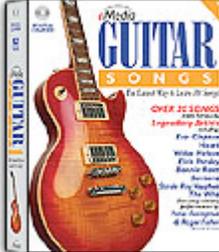


Performance Assessment is a free program from MakeMusic! which provides students with the opportunity to sing or play their instruments to exercises generated using Finale 2005 (or later) notation software. The software provides a metronome and a pointer to the location in the music. Students must perform in time with the beat into a microphone. At the end of the performance, the computer parses the performance and indicates which notes were correct and which were incorrect. Correct notes are displayed in green, incorrect in red, and missed notes in black. The computer shows both rhythm and pitch errors. The computer also calculates a score, based on the percentage of notes performed correctly. When properly configured, the computer can e-mail the score to the instructor.

Piano and Keyboard Method
Bass Method
Guitar Method (Vol. 1)
Intermediate Guitar Method (Vol. 2)
Rock Guitar
Guitar Songs
Blues Guitar Legends
 Publisher: EMedia
 Platform: Macintosh, Windows



Guitar Method

 <p>Piano and Keyboard Method</p>	 <p>Bass Guitar Method</p>	 <p>Guitar Method (vol. 1)</p>	
 <p>Intermediate Guitar Method (vol. 2)</p>	 <p>Rock Guitar Method</p>	 <p>Guitar Songs</p>	 <p>Blues Guitar Legends</p>

The EMedia series contains computer-based lessons for beginners on various instruments including piano and keyboards, electric bass, and guitar. Each program contains over 150 lessons on its instrument. Lessons contain sequenced pieces which progress from easy to more difficult. The software tracks the progress of students.

Smart Music

Publisher: MakeMusic!

Platform: Macintosh, Windows

<http://www.makemusic.com>

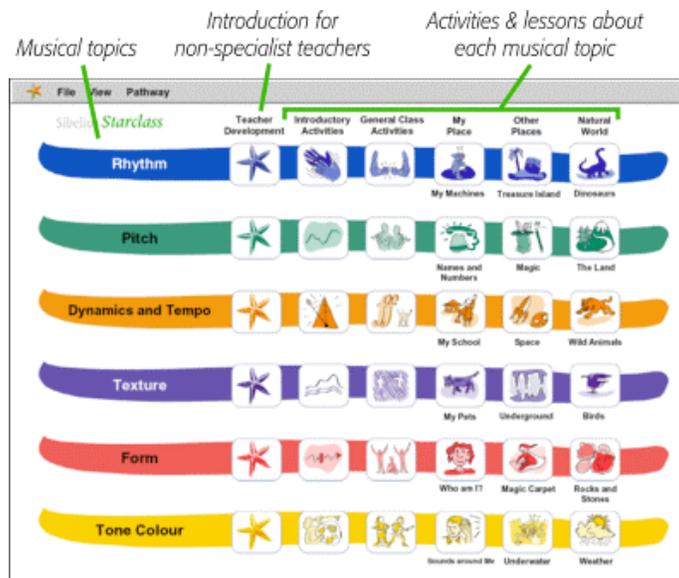


SmartMusic provides accompaniments to well known instrumental and vocal literature. The performers practicing with these accompaniments may sing into a microphone, and when the software is properly configured, the computer will follow them. The program gives the starting pitch, provides a tuner, and can play the correct melody. It may also be used in a strict metronomic mode, for students who are not ready to be expressive with tempo. Given the scarcity of accompanists in many school districts, the software provides a useful service. The program requires a subscription and internet connection for full use. Once the subscription is activated, the user of the program may download accompaniments for method books, solos, many contest lists, and standard classical repertoire. The software includes a special microphone which provides the best results. It also offers an optional foot pedal for advancing the accompaniment should it fall behind. Smart music may be used in evaluation mode to provide feedback to students on their performance.

StarClass

Publisher: Sibelius

Platform: Macintosh, Windows



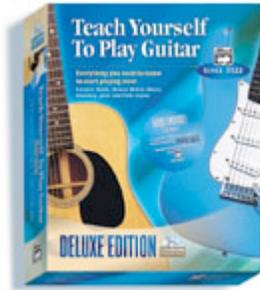
StarClass is a program for elementary general music teachers which includes numerous lessons. The lessons, again, are organized according to the elements of music: melody, harmony, rhythm, etc. While many of the activities are in the form of lesson plans to be implemented by music teachers, many contain illustrations of concepts which would be useful for presentation to students.

Teach Yourself to Play Guitar
Teach Yourself to Play Piano

Publisher: Alfred

Platform: Macintosh, Windows

<http://www.alfred.com>



Teach Yourself to Play Guitar



Teach Yourself to Play Piano

Alfred offers books entitled Teach Yourself to Play Piano and Teach Yourself to Play Guitar. These CD ROMs accompany those books and provide familiarity with the instrument and an introduction to reading standard music notation. Songs in a variety of styles are included. Topics also include scales and play-along exercises. The student may adjust the tempo for their practice session and may record their performance. The software also includes video of an instructor demonstrating the various techniques. The guitar software includes a tuner.

Various Lessons by ECS

Publisher: Electronic Courseware Systems

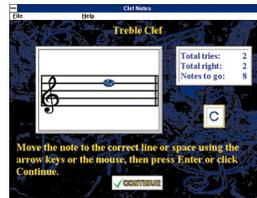
Platform: Macintosh, Windows



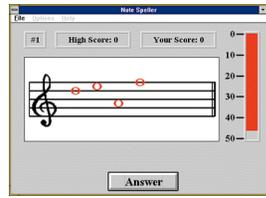
Adventures
In Musicland



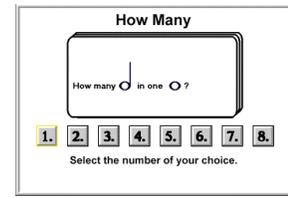
Music Terminology



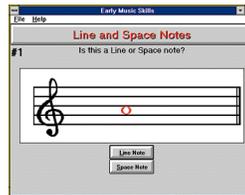
Clef Notes



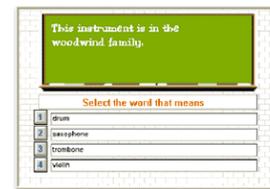
Note Speller



Musical Flash Cards



Early Music Skills



Spell and Define

VARIOUS LESSONS BY ECS

Adventures in Musicland
Early Music Skills
Elements of Music
Music Flash Cards
KIDS (Keyboard
Introductory Dev)
Musical Stairs
Smack-a-note
Rhythm Factory
Clef Notes
Echos
Note Detective

Note Speller
Musicus
Super Musicus
Aural Skills Trainer
Tap-It (I and II)
Tune-It (I and II)
Super Ear Challenger
Functional Harmony
Harmonic Progressions
Music Terminology
Musique
Keyboard Arpeggios

Keyboard Blues
Keyboard Chords
Keyboard Fingerings
Keyboard Intervals
Keyboard Jazz Harmony
Keyboard Kapers
Keyboard Notegame
Keyboard Speed Reading
Keyboard Tutor
Early Keyboard Skills

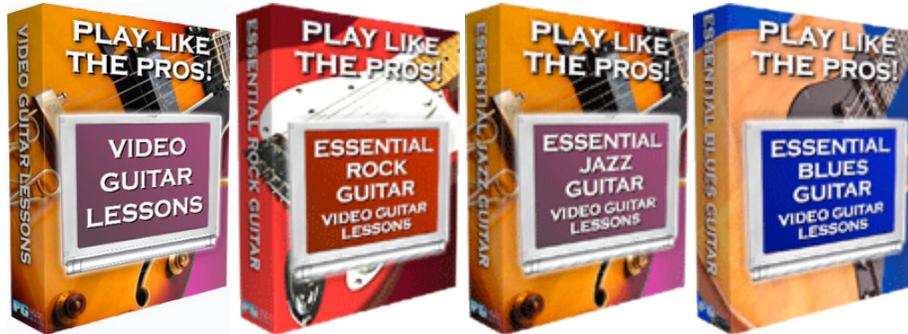
All ECS games provide reinforcement of music fundamentals through a drill and practice format. Record keeping is through a hall of fame in which students compete to maintain the top scores. This software is generally appropriate for students in grades three to twelve, with occasional exceptions for programs such as Functional Harmony and Harmonic Progressions.

The Adventures in Musicland series varies somewhat from the traditional ECS format. This program provides a game format for the practice of musical memory. It includes three games. In one the student, hears a series of pitches of increasing length and must repeat them. Various modes of play permit the student to work on an easy level (visual and aural clues with only four notes) to the most difficult level (only aural cues and using all eight notes of the diatonic scale). Other games include a musical game resembling the television show, concentration, and a game in which students must identify instruments and composers by viewing just a part of them. Each game has levels ranging from easy to difficult.

Video Guitar Lessons
Essential Jazz Guitar
Essential Rock Guitar
Essential Blues Guitar

Publisher: PG Music
Macintosh/Windows

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



PG Music publishes a series of programs designed to teach the essentials of playing guitar. The programs focus on a variety of styles including Rock Jazz, and the Blues.

Instructional Software Recommendations

The following charts list suggested instructional music software titles. These programs appear and disappear quickly, primarily because of the quick pace of hardware development by computer manufacturers and of software development, especially by those who write computer operating system software. Publishers of instructional software frequently choose to update software which is profitable and let other titles fall out of print. This means that a number of excellent programs are no longer available, or no longer available for current computer systems.

EARLY CHILDHOOD MUSIC

Title	Publisher	Platform
Midisaurus	McGraw Hill	Mac/Win
Music Ace I and II (CD)	Harmonic Vision	Mac/Win
Doodle Pad (from Music Ace)	Harmonic Vision	Mac/Win
Rock Rap & Roll(CD)	Silver Burdett & Ginn	Mac/Win
Making Music (Morton Subotnick)	Voyager/LearnTech	Mac/Win
Making More Music (Morton Subotnick)	Voyager/LearnTech	Mac/Win
Beethoven Lives Upstairs (CD)	Classical Kids	Mac/Win
Adventures in Musicland (CD)	ECS	Mac/Win
Early Music Skills	ECS	Mac/Win
Elements of Music	ECS	Mac/Win
KIDS (Keyboard Introductory Dev)	ECS	Mac/Win
Music Flash Cards	ECS	Mac/Win
Musical Stairs	ECS	Mac/Win
Smack-a-note	ECS	Mac/Win
Rhythm Factory	ECS	Mac/Win

MUSIC READING SKILLS

Title	Publisher	Platform
Clef Notes	ECS	Mac/Win
Echos	ECS	Mac/Win
Note Detective	ECS	Mac/Win
Note Speller	ECS	Mac/Win
Musicus	ECS	Mac/Win
Super Musicus	ECS	Mac/Win

LISTENING AND PERFORMANCE

Title	Publisher	Platform
Aural Skills Trainer	ECS	Mac/Win
Tap-It (I and II)	ECS	Mac/Win

Tune-It (I and II)	ECS	Mac/DOS
Super Ear Challenger	ECS	Mac/Win
EarTraining 2.6.2	Lars Peters	Mac
EarTraining 2.7: A Technique For	Brown and Benchmark	Mac

MUSIC THEORY

Title	Publisher	Platform
Auralia	Sibelius	Mac/Win
Practica Musica	Ars Nova	Mac
Music Lessons I and II	MiBAC	Mac/Win
Theory Games (1A, 1B, 2)	Alfred	Mac/Win
Theory Games (3,4,5)	Alfred	Mac/Win
Essentials of Music Theory (Vol.1)	Alfred	Mac/Win
Essentials of Music Theory (Vol.2)	Alfred	Mac/Win
Essentials of Music Theory (Vol.3)	Alfred	Mac/Win
Practical Theory Achievement Tests	Alfred	Mac/Win
Functional Harmony	ECS	Mac/Win
Harmonic Progressions	ECS	Mac/Win
Music Terminology	ECS	Mac/Win
Music Terminology - Band/Orch/Ch	ECS	Mac/Win
Musique	ECS	Mac/Win
Hearmaster	Emagic	Mac/Win
Musica Analytica	ERTechnologies	Mac/Win

KEYBOARD SKILLS & STUDIES

Title	Publisher	Platform
Teach Yourself to Play Piano	Alfred	Mac/Win
Essentials of Music - Piano	Alfred	Mac/Win
EASY Classical Piano Vol 1 Hyb	Hal Leonard	Mac/Win
EASY Classical Piano Vol 2 Hyb	Hal Leonard	Mac/Win
Popular Classical Piano	Hal Leonard	Mac/Win
GLEN Gould Plays Bach Hyb	Hal Leonard	Mac/Win
The Pianist Vol. 1,2,3	PG Music	Mac/Win
The Children's Pianist	PG Music	Mac/Win
The Contemporary Pianist	Warner Brothers	Mac/Win
Keyboard Arpeggios	ECS	Mac/Win
Keyboard Blues	ECS	Mac/Win
Keyboard Chords	ECS	Mac/Win
Keyboard Fingerings	ECS	Mac/Win
Keyboard Intervals	ECS	Mac/Win
Keyboard Jazz Harmony	ECS	Mac/Win
Keyboard Kapers	ECS	Mac/Win
Keyboard Notegame	ECS	Mac/Win
Keyboard Speed Reading	ECS	Mac/Win
Keyboard Tutor	ECS	Mac/Win

Early Keyboard Skills	ECS	Mac/Win
In Concert	Cakewalk	Mac/Win

GUITAR STUDIES

Title	Publisher	Platform
The Jazz Guitarist	PG Music	Mac/Win
Teach Yourself to Play Guitar	Alfred	Mac/Win
Guitropolis	Alfred	Mac/Win
Guitar Method Vol. 1, 2	eMedia	Mac/Win
Guitar - Bass Method	E Media	Mac/Win

JAZZ & IMPROVISATION STUDIES

Title	Publisher	Platform
The History of Jazz (CD)	Clearvue/EAV	Mac/Win
The History of the Blues (CD)	Clearvue/EAV	Mac/Win
Keyboard Blues	ECS	Mac/DOS
Keyboard Jazz Harmonies	ECS	Mac/DOS
Keyboard Extended Jazz Harmonies	ECS	Mac/DOS
MIDI Jazz Improvisation Vol. 1 and	ECS	Mac/DOS
Herbie Hancock: Living Jazz (CD)	Graphix Zone	Mac/Win
The Jazz Soloist Vol. 1,2,3	PG Music	Mac/Win
The Jazz Pianist Vol.1,2,3	PG Music	Mac/Win
The Gospel Pianist	PG Music	Mac/Win
The New Orleans Pianist	PG Music	Mac/Win
The Ragtime Pianist	PG Music	Mac/Win
The Jazz Guitarist	PG Music	Mac/Win
Band in a Box	PG Music	Mac/Win
Jazz	MiBac	Mac/Win

PERFORMANCE

Title	Publisher	Platform
Smart Music	Coda	Mac/Win
Amadeus	Pvware	Mac/Win
In Concert	Cakewalk	Mac/Win
Band in a Box	PG Music	Mac/Win
Home Concert 2000	TimeWarp Technologies	Mac/Win

MUSIC APPRECIATION & HISTORY

Title	Publisher	Platform
Art & Music Titles Vol.1-8 (CD)	Clearvue/EAV	Mac/Win
The Art of Listening (CD)	Clearvue/EAV	Mac/Win
Great Composers: Vol. 1-6 (CD)	Clearvue/EAV	Mac/Win
Instruments of the Symphony Orchestra	Clearvue/EAV	Mac/Win
Music Appreciation - complete (CD)	Clearvue/EAV	Mac/Win

Music & Culture (CD)	Clearvue/EAV	Mac/Win
The History of Music Part 1-2 (CD)	Clearvue/EAV	Mac/Win
The History of Folk Music (CD)	Clearvue/EAV	Mac/Win
The History of the Blues	Clearvue/EAV	Mac/Win
The History of Country Music	Clearvue/EAV	Mac/Win
The History of Jazz (CD)	Clearvue/EAV	Mac/Win
Music Composer Quiz	ECS	Mac/Win
Music History Review: Composers	ECS	Mac/Win
Time Sketch Editor	ECS	Mac/Win
Bach: Toccata & Fugue in Dm (CD)	ECS TimeSketch Series	Mac/Win
Beethoven: Symphony #5 (CD)	ECS TimeSketch Series	Mac/Win
Brahms: Symphony #3 (CD)	ECS TimeSketch Series	Mac/Win
Mozart: Symphony #40 (CD)	ECS TimeSketch Series	Mac/Win
Schubert: Unfinished Symphony (CD)	ECS TimeSketch Series	Mac/Win
Dvorak: New World Symphony (CD)	ECS TimeSketch Series	Mac/Win
Beethoven: Pathetique Sonata (CD)	ECS TimeSketch Series	Mac/Win
Beethoven: Piano Concerto CD)	ECS TimeSketch Series	Mac/Win
Brubeck Sketches #1 (CD)	ECS TimeSketch Series	Mac/Win
Miles Davis Sketches #1 (CD)	ECS TimeSketch Series	Mac/Win
Grainger Sketches #1 Lincolnshire (CD)	ECS TimeSketch Series	Mac/Win
Moussorgsky: Pictures at an Exhibition	ECS TimeSketch Series	Mac/Win
Vaughn Williams (CD)	ECS TimeSketch Series	Mac/Win
Beethoven (CD)	Intersound	Mac/Win
Willie Nelson	Graphix	Mac/Win

INTEGRATED and VISUAL ARTS

Title	Publisher	Platform
Chicago Art Institute	Forest Technologies	Mac/Win
Le Louvre	Imagine the World	Mac/Win
Art & Music Titles Vol.1-8 (CD)	Clearvue/EAV	Mac/Win
Impressionism	Clearvue	Mac/Win

NOTABLE MACINTOSH-ONLY SOFTWARE

Title	Publisher	Platform
A Little Kid Music	Ars Nova	Mac
Songworks	Ars Nova	Mac

Multimedia and CD ROM Recommendations

Title	Publisher	Platform
Making Music (Morton Subotnick)	Voyager/LearnTech	Mac/Win
Making More Music (Morton	Voyager/LearnTech	Mac/Win
Sound Toys	Voyager/LearnTech	Mac
Multimedia History of Music	Voyetra	Win
Multimedia Musical Instruments	Voyetra	Win
Composer Collection	Microsoft	Win
Multimedia Beethoven: Ninth	Microsoft	Win
Multimedia Stravinsky: Rite of Spring	Microsoft	Win
Multimedia Mozart: Dissonant Quartet	Microsoft	Win
History of the Blues	Queue, Inc.	Mac/Win
History of Country Music	Queue, Inc.	Mac/Win
Children's Treasury of Nursery Rhymes	Queue, Inc.	Mac/Win
Apple Pie Music	Queue, Inc.	Mac/Win
Jazz: A Multimedia History	Compton's New Media	Mac/Win
MusicROM Blues	Compton's New Media	Win
MusicROM Jazz	Compton's New Media	Win
MusicROM R & B	Compton's New Media	Win
Intro to Classical Music	Compton's New Media	Win
Viking Guide to Opera	Compton's New Media	Win
Louis Armstrong	Compton's New Media	Win
Billie Holiday	Compton's New Media	Win
Count Basie	Compton's New Media	Win
Music Masterworks Series	Norton	Mac
Tchaikovsky's 1812 Overture	Interactive Publishing Co.	Mac/Win
Beethoven's 5th Symphony	Interactive Publishing Co.	Mac/Win
History of American Music	Lintronics Software Pub.	Mac/Win

Enhanced CDs

Title	Publisher	Platform
Beethoven, The Man & His Music	Intersound	Mac/Win
Bach, The Man & His Music	Intersound	Mac/Win
The Best of Baroque	Intersound	Mac/Win
Chopin, The Man & His Music	Intersound	Mac/Win
Piano Masterpieces: The Definitive Collection	Intersound	Mac/Win
Tchaikovsky, The Man & His Music	Intersound	Mac/Win
Mozart, The Man & His Music	Intersound	Mac/Win
Puccini, The Man & His Music	Intersound	Mac/Win
R. Strauss, The Man & His Music	Intersound	Mac/Win

Dr. C. Floyd Richmond is a music education and technology specialist working in the Southeastern Pennsylvania area. He is frequently called upon for school inservice days, local, state, and national conferences. He is the author and editor of numerous articles, chapters, and books on music technology. He is active with the Technology Institute for Music Educators (TI:ME) where he is the chair of the education and curriculum committee. He teaches TI:ME courses at a number of locations around the country. In recent years he has taught at Ball State University, Kent State University, Villanova University, and Valley Forge Christian College. He is also active with the Association for Technology in Music Instruction (ATMI), where in 2004, he served as the conference chair. He is on the faculty of Valley Forge Christian College in Phoenixville, Pennsylvania.

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Out-takes and work files below

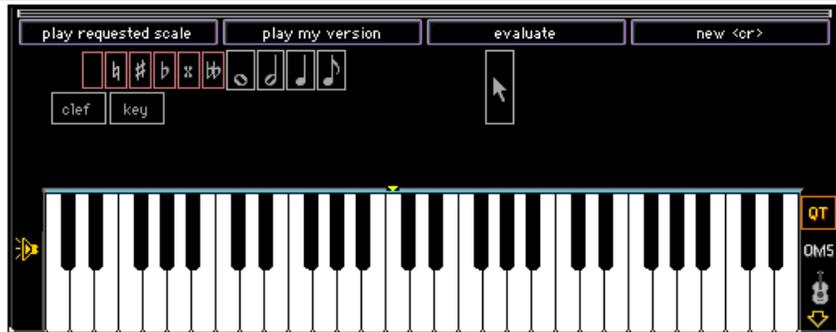
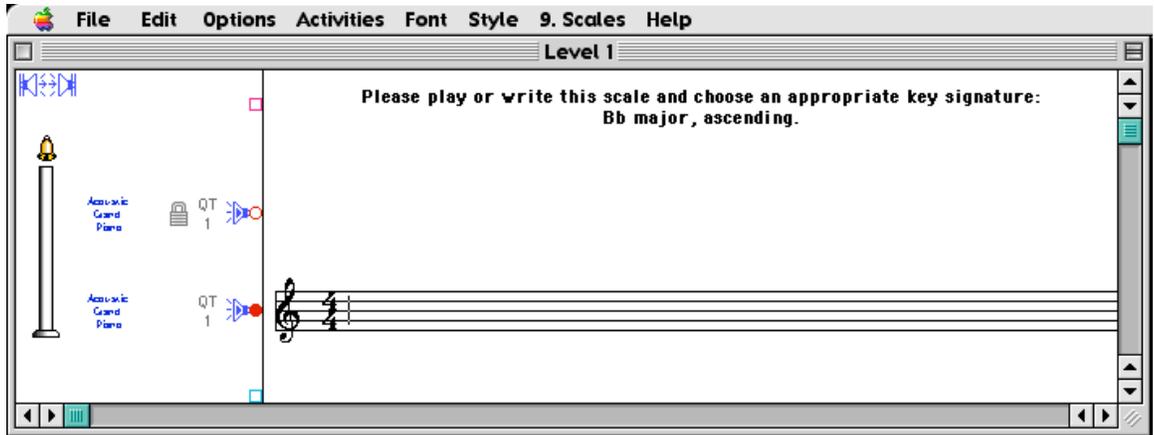
Rock Rap and Roll



JumpStart Music



JumpStart Music



Ars Nova Practica Musica

