

Automate and Motivate 21st Century String Players with Technology

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Why?

- ✱ Today's students are *different*.
- ✱ “Digital Natives”
- ✱ Book: “Grown Up Digital” by Don Tapscott
- ✱ So many negative views of current generation
- ✱ Resources are changing; technology evolves
- ✱ Don't blame the kids!

Today's student are (not):

LAZY

AWKWARD

VIOLENT

DISTRACTED

DUMB

RECKLESS

UNREALISTIC

SHALLOW

THIEVES

POOR COMMUNICATORS

SLACKERS

WITHOUT SHAME

SPOILED

Today's student **are:**

CREATIVE

COLLABORATIVE

TECHNICAL

HANDS-ON

INNOVATIVE

SOCIAL

LITERATE

COMMUNICATORS

CRITICAL THINKERS

PROBLEM SOLVERS

How can I be effective?

- * Try to see things from the student's perspective
- * Bond with students -- really get to know them
- * Embrace their learning style
- * Embrace their culture
- * Combine aural and visual stimulation
- * *Be willing to **continuously adapt** to our student's changing needs and **customize** the curriculum*

In Rehearsal

- * Classroom automation
- * Tuning procedures
- * Warm-ups (scales, exercises, echoes, etc.)
- * Increase proximity to individuals
- * Rehearsal enhancement
- * Adjust for your situation (small or big classes, student/teacher's tech knowledge)

Garageband Demo

1. TUNING SEQUENCE

2. SCALES

3. LISTENING FOR STUDENTS

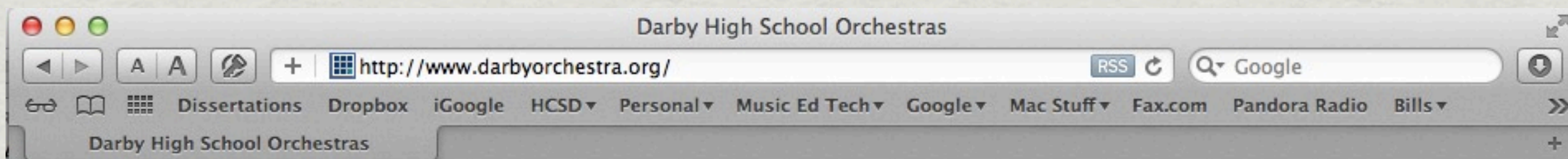
4. ENHANCEMENT OF SIMPLE TUNES



For Home Practice

- * Online learning 24/7
- * Full recordings or just parts
- * Audio on computer or iPod for listening/practice
- * Post rehearsal recordings on a blog, assign student commenting as homework (reflection)
- * Technique videos - Reinforce classroom instruction
- * Make your own YouTube Channel - showcase students!

Rehearsal Comments [LINK](#)



Christmas Festival Listening

Posted on [November 30, 2011](#) by [Mr. Laux](#)

Below are a few links to listening examples of Leroy Anderson's *Christmas Festival*. Hopefully listening will help you understand the nature of the piece and will familiarize you with style, entrances, etc. It's also good to hear multiple recordings to compare tempi, phrasing, and more.

- [Boston Pops](#)
- [Melbourne FL Community Orchestra](#)
- [Tallahassee Symphony Youth Orchestra](#)

Special thanks to the woodwind, brass, and percussion players for being a

UPCOMING EVENTS

Darby High School Orchestra

Today [←](#) [▶](#) Monday

Monday, January 23

7:00pm [Sympho](#)

Saturday, February 4

[Solo/ Ensemble E](#)

Tuesday, February 21

7:00pm [Sympho](#)

Tuesday, February 28

7:00pm [Sympho](#)

Events shown in

YouTube Channel

[LINK](#)

The screenshot shows a web browser window displaying the YouTube channel page for 'Mr. Laux's YouTube Channel'. The browser's address bar shows the URL 'http://www.youtube.com/user/mrorchestrator'. The page features a navigation bar with 'Search', 'Browse', 'Upload', 'Create Account', and 'Sign In'. The channel header includes a profile picture, the name 'Mr. Laux's YouTube Channel', a 'Subscribe' button, and tabs for 'All', 'Uploads', and 'Favorites'. The main content area displays a video player for 'Hilliard City Schools MS Honors Orchestra 2011' with a play button overlay. Below the video player are options for 'Info', 'Favorite', 'Share', 'Playlists', and 'Flag'. A description box provides details about the video, including the date and location. To the right of the video player is a search bar and a list of recommended videos, each with a thumbnail, title, view count, and upload date.

YouTube - mrorchestrator's Channel

http://www.youtube.com/user/mrorchestrator

Search | Browse | Upload | Create Account | Sign In

Mr. Laux's YouTube Channel
mrorchestrator's Channel

Subscribe

All | Uploads | Favorites

Hilliard City Schools MS Honors Orchestra 2011

00:00 / 12:05 | 360p

Info | Favorite | Share | Playlists | Flag

Hilliard City Schools MS Honors Orchestra 2011
From: mrorchestrator | Mar 10, 2011 | 113 views
performed on March 9, 2011 at Hilliard Bradley High School

Hilliard City Schools MS Honors Orchestra
113 views - 6 days ago | 12:05

2011 HCS Elementary Orchestras
74 views - 6 days ago | 4:40

Hilliard Station 6th Grade Orchestra
59 views - 6 days ago | 7:01

HTE Cello/Bass - Native American Chant
51 views - 2 weeks ago | 0:38

HTE Violin/Viola - Native American Chant
28 views - 2 weeks ago | 0:37

String Hero - Violin I
39 views - 3 weeks ago | 1:37

Assessment

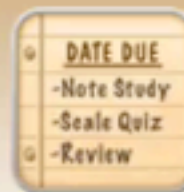
- * “See” the music (phrasing, dynamics)
- * Waveform editors
 - * Audacity / Amadeus Pro / Others?
- * Intonia
- * Portable Video Cameras/iPods
 - * Accurate assessment, portfolio, easy archival
- * Cloud-based assessment
 - * Charms Office, Essential Elements Interactive



HAL LEONARD ESSENTIAL ELEMENTS Interactive

Beta Release 1.0

Welcome Steve Smith, Hal Leonard Middle School Music | [My Account](#) | [Help](#) | [Sign Out](#)



MUSIC STUDIO

STUDENT
RECORDINGS

MY RECORDINGS

VIEW SONGLIST

FINGERING CHARTS

MUSIC STUDIO

Navigation controls: Play/Pause, Stop, Volume slider, Repeat, SLOW, Count Off: 4 Beats, Zoom in, Microphone, and Upright Bass icons.

Accompaniment: None ▼ Instrument: Violin ▼

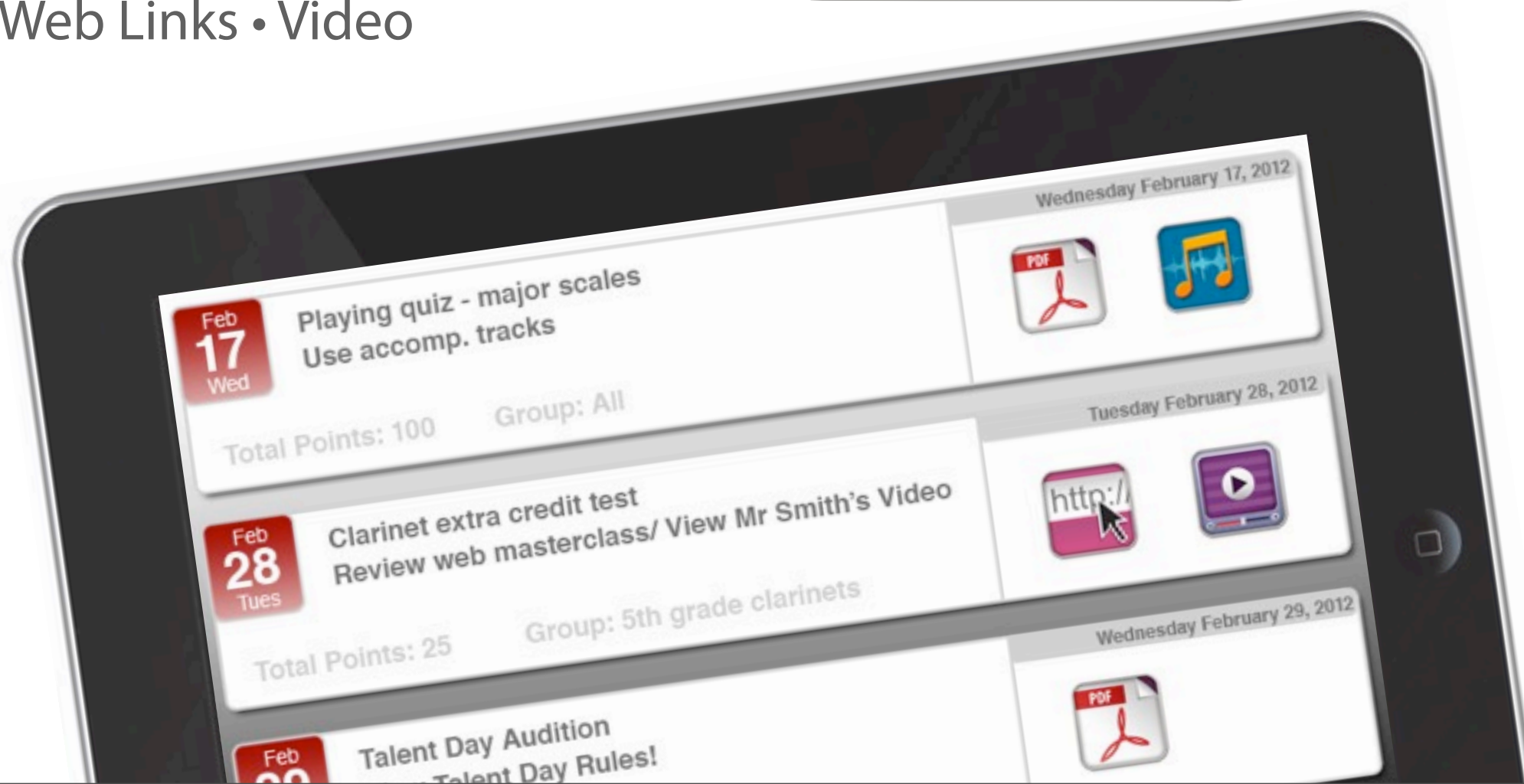
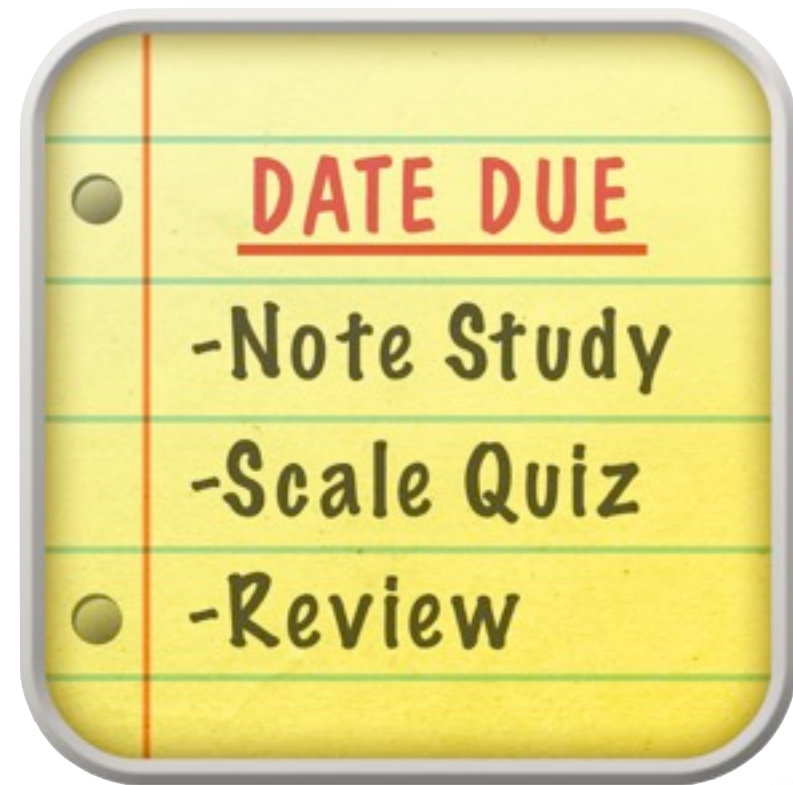
19. ROLLING ALONG

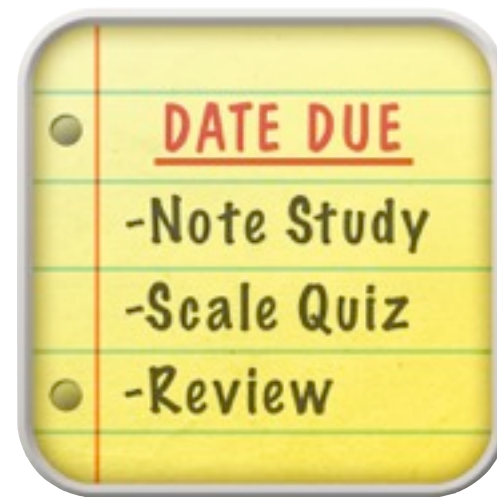
pizz. Go to next line. ▼

Assignments

Post assignments
and resources.

PDF • MP3 • Web Links • Video





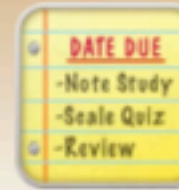
Music Studio Assignments

Students can **record and post assignments** for teacher feedback.



HAL LEONARD
**ESSENTIAL
ELEMENTS**
Interactive
Beta Release 1.0

Charles Laux, HL Music Music | My Account | Help | Sign Out



CURRENT
ASSIGNMENTS

GRADED
ASSIGNMENTS

PREVIOUS
ASSIGNMENTS

PRACTICE LOGS

GRADE REPORT

Current Assignments

1-3 of 3 assignments

Show: Upcoming

Sort By: Date (Ascending)

Mar
3
Mon

Recording Test #57



Tribal Lament

Total Points: 100

No Resources

Mar
3
Mon

Recording Test #73



Buckeye Salute

Total Points: 100

No Resources

Sep
22
Mon

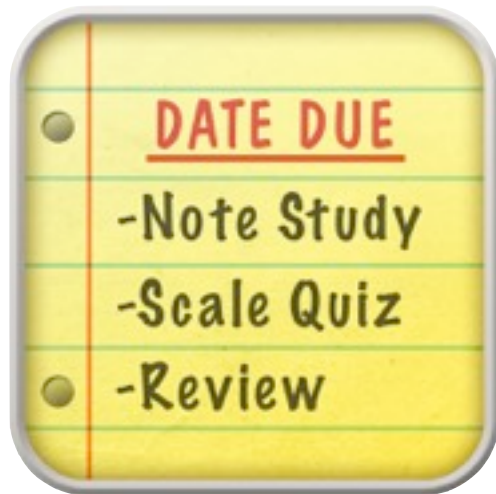
Test



The Long Haul

Total Points: 100

No Resources



Teacher Response

Teachers can **listen** to student recordings and **respond** on any internet-connected device.



Hardware



- ✦ Compact Video Cameras - “Shoot & Share” - Zoom Q2HD
- ✦ Small MIDI controllers - Akai LPK25, M-Audio Keystation Mini 32
- ✦ Handheld high quality audio recorders - Tascam, Zoom, Roland, Sony
- ✦ Portable speaker systems - Bose SoundDock Portable



Software Links

- * Audacity (Free, Mac/Win)
- * Amadeus Pro (\$40, Mac)
- * Apple Garageband (Free, Mac)
- * PreSonus Studio One (Free, Paid Options, Mac/Win)
- * Intonia, \$25 (Mac/Win)

Special thanks...



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D'Addario

Questions? Tech Talk?



charleslaux1@gmail.com



facebook.com/charleslaux



[@charleslaux](https://twitter.com/charleslaux)

Slides, links, etc. available at:
www.stringedtech.com

