







SHORT-TERM GOALS & SOLUTIONS:

Not our *main focus* today, but let's take a brief stop here ...

- **Literature Selection:** Difficulty ~ Cross-cueing ~ Ensemble strengths/weaknesses ~ <u>matching</u> (range, skills, endurance, et al)
- **Seating Plans:** Guided by your students & facility <u>more than</u> by what you remember from college ~ the *sound* drives the seating plan, and that might be affected by the literature



Personalized strategies:

Along the way, we'll make some pit-stops for ...

... Intonation Maps (a pitch-tendencies "inventory")

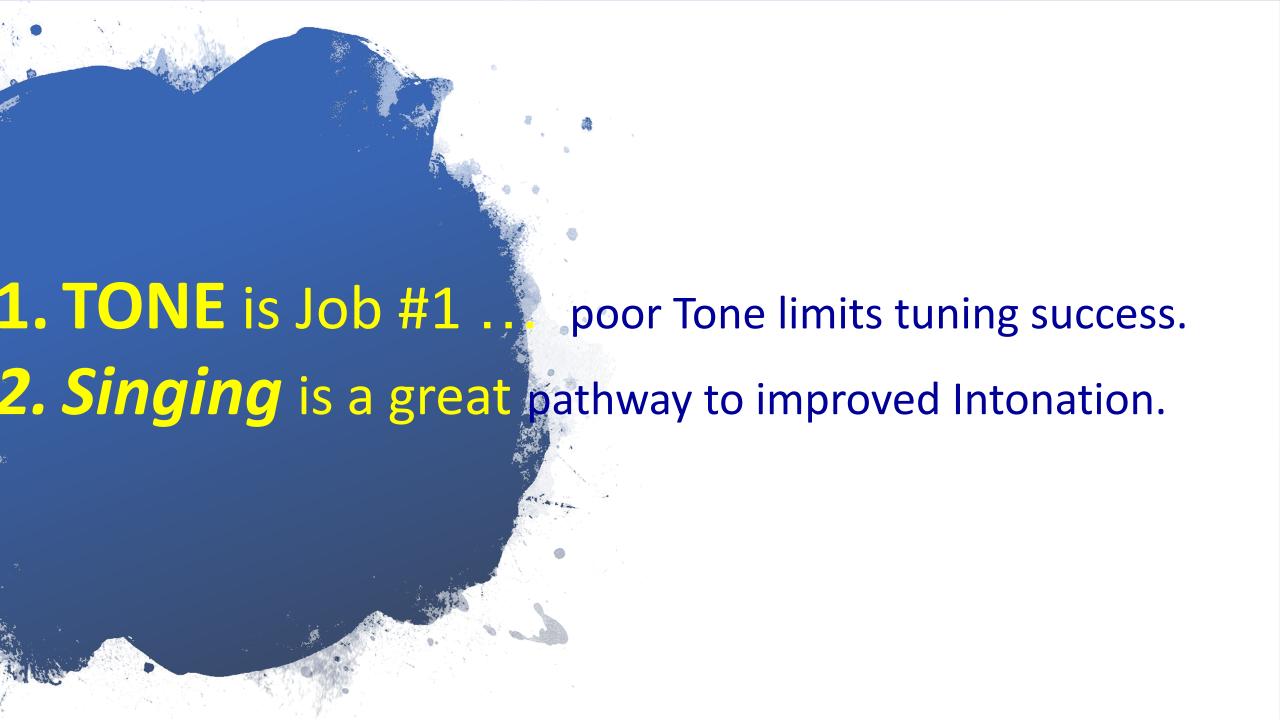
.. **Alternate Fingerings/Positions** (*when* can you begin teaching *Theory* for harmonics, overtones, and intonation tendencies?)

... **Lesson Content** (Do you value Tone/Intonation in *every* session with students?)

Tech/App options



"What can I do in rehearsals and lesson classes to help students develop their independence with Tone & Tuning?"

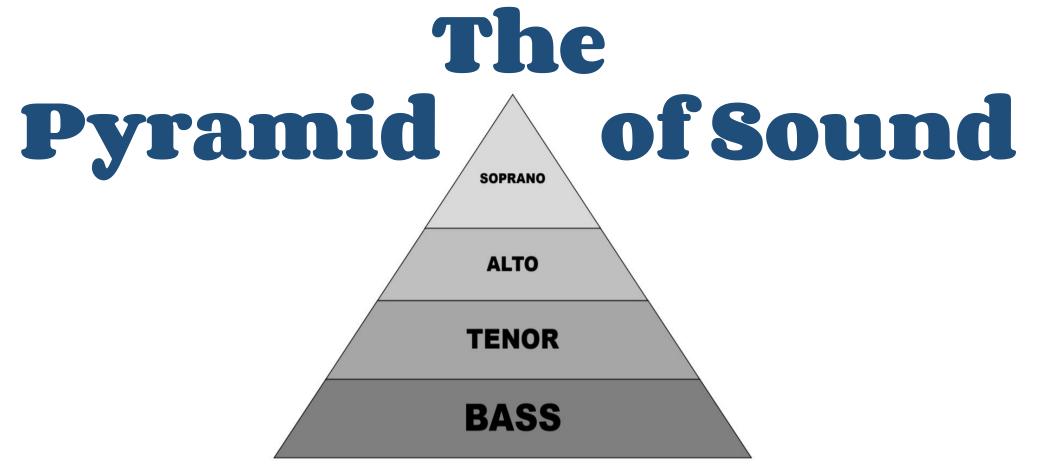




The Framework of "GIVENS"

- 1. The Aural Concept
- 2. The Fundamentals
 - Posture & Positioning [Grip]
 - Breathing & Breath Control [Stroke]
 - Articulation [Stroke, Mallet Choice, Playing Area]
 - Listening & Awareness [Balance, Blend, Etc.]
- 3. The Equipment
- 4. And the Aural Concept
- 5. Oh and lest I forget: the Aural Concept!





BUT REMEMBER: The Double-Pyramid ... The Pyramid Within the Section ... The Christmas-Tree Pyramid ... "Treasury of Scales" group suggestions ... Ed Lisk's Groupings ("The Creative Director" series)

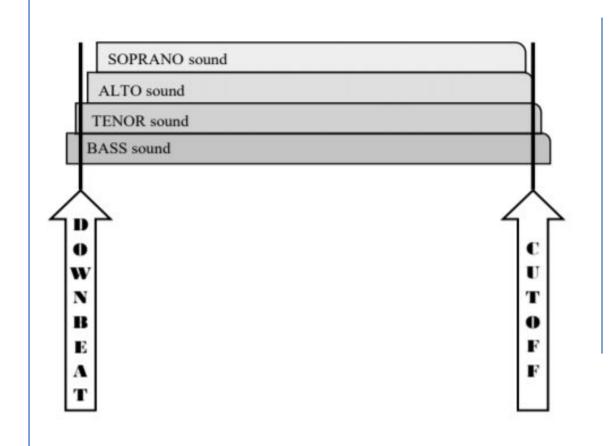
NOTE: **Be** *flexible* **with the application of the pyramid concept**. As a "recipe" for warm wind-band tone, it should be adjusted for taste, and to reflect the musical needs of the composer, the composition, the excerpt, the performance venue, and many variables within the group.

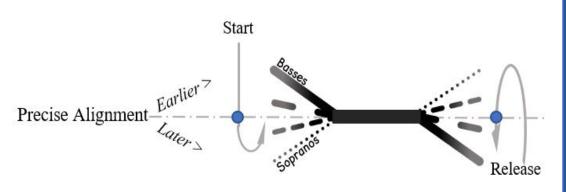
A suggested exercise to develop the SATB Pyramid sound through *layering* - Hear only the bass layer performing as a *Soli*, offering feedback to refine its blend and tone. Then, add Group III, with a single instruction: "Hear each other clearly, but <u>hide</u> inside the sound of the previous group. We should feel that you're there, without overpowering the other group." Continue through other layers. Training for this full-group skill can begin with unisons, scales and chorales, but students will transfer quickly to self-blending during repertoire passages; therefore, remember this process while rehearsing repertoire.

Some Rehearsal Exercises for TONE — BALANCE - BLEND

- 1. "Copy My Sound"
- 2. SING! (a lot), discussing vowels, resonance, articulation, etc.
- 3. "Pass the F" (Bb) a.k.a. "F-Around-The-Room"
- 4. Invert the Pyramid (EQ)
- 5. Analogies / Descriptors (p. 62-64) incl. The "Cake" analogies
- 6. Comparative Recordings
- 7. Nesting boxes, Envelopes, and Russian Dolls
- 8. The Band's Environment
- 9. Seating plan alternatives
- 10. Redistribution
- 11. Three components of "Blend" a.k.a. "Don't stick out!"
- 12. Some GAMES (p. 63-66) Randomness ~ Playing in Trios ~ Isolation ~ Your creativity
- 13. A guideline for Balance & Dynamics "Hearing oneself and others"
- 14. Some words about Breathing, Posture, et al

"First-In, Last-Out" ~ A Concept for Warmth





Let's call it a "Resonant" release ... but why??

Uh-oh!

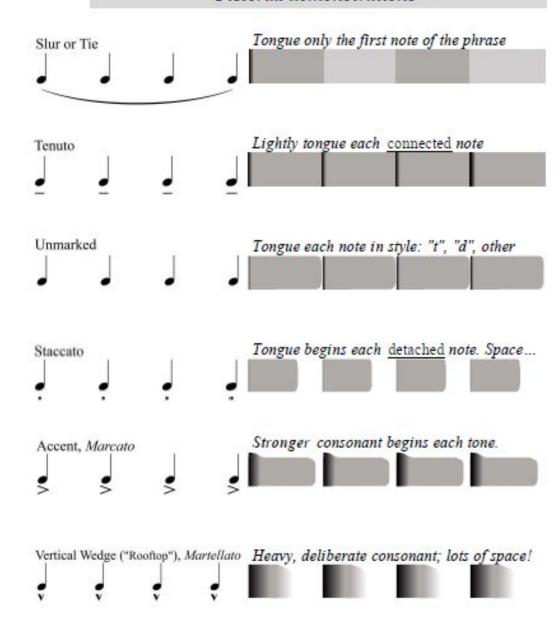
What about ... ARTICULATIONS ??!

Just one minute on this source of many potential problems for Bands ...

Wind Articulation: Examples of how tones might "look"

"Strategies, Tips, and Activities for the Effective Band Director", p. 74
Routledge, 2021

Selected common Articulation Markings Pictorial demonstrations



examples Quick

- Describe *pp* as "the softest sound you can play with good Tone", while *ff* is "the loudest sound you can play with good Tone." Tone is the most important guiding principle.
- Teach with quantifiable labels which, compared to traditional letters, may be easier to conceptualize by younger students. Examples include the following:
 - O Assign numbers 1-through-6 for dynamics, which can then be compared to pp p mp mf f f: "Clarinets, please play at a level of '2' here."
 - Assign numbers 1-through-10, which will align to most volume controllers: "Low Brass, can you crescendo from a '5' to an '8' in just one measure?"
 - Speak about percentages (0-100%) to align to other common measurement standards: "Saxes, please play that accompaniment figure about 50% softer."
 - Make an analogy using weights: "If you just played a '10-pound sound', let's make it '25 pounds' instead."
 - We can even refer to density: For younger students, "that's a tiny cotton ball; we'll need to make it a huge marshmallow." And for older, "you're playing with pumice; can you give me polished marble instead?"
- Refine students' awareness with behavioral descriptors:
 - o "When playing pp-p I strive to hear my neighbor better than I can hear myself."
 - o "At mp-mf, we sound very equal."
 - o "At f-ff I try to hear myself better than I can hear my neighbors."

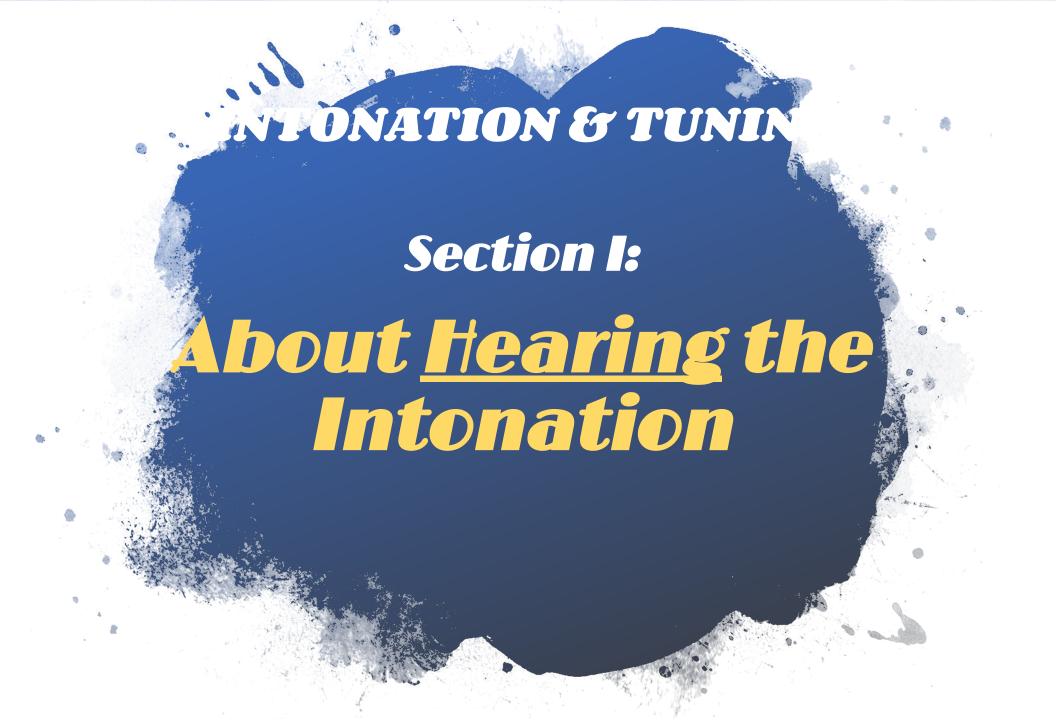
- Turn it upside-down: Perform a short comparison with a full-band unison or chord. Alternate between the desired SATB balanced pyramid and its inversion. "Sopranos please play ff, Altos mf, Tenors mp, and Basses pp ... Let's hear that for a moment, and hopefully never again! ... On cue, reverse the dynamics so we'll hear the warm tone we're trying to build."
- Demonstrate balance parameters with EQ controllers: While the band is listening to any recording, manipulate the bands of the equalizer: increase Treble and decrease Bass. Compare to immature Band Tone and then, together, rebuild the favored sound. If possible, *display* the EQ controls.
- Regarding the SATB balance, try non-musical comparisons: "In a cheerleading or acrobatic pyramid, we never put the heaviest person on top" ... "That sound is like a top-heavy building on sand; let's put our bottom-heavy building firmly on bedrock."
- On dynamic control for Tone: "Never softer than nor louder than <u>beautiful</u>."
- On blending into the ensemble's Tone: "We opened our can of beautiful blue paint, and we found some single drops of white lying right on top; let's stir them in" ... "Don't be the only thorn in our bouquet of roses"... "You're neon-green in our rainbow" ... "I was really looking forward to eating my big bowl of ice cream until I noticed just one tiny fly in it. Ugh." Follow with your own creative analogies.

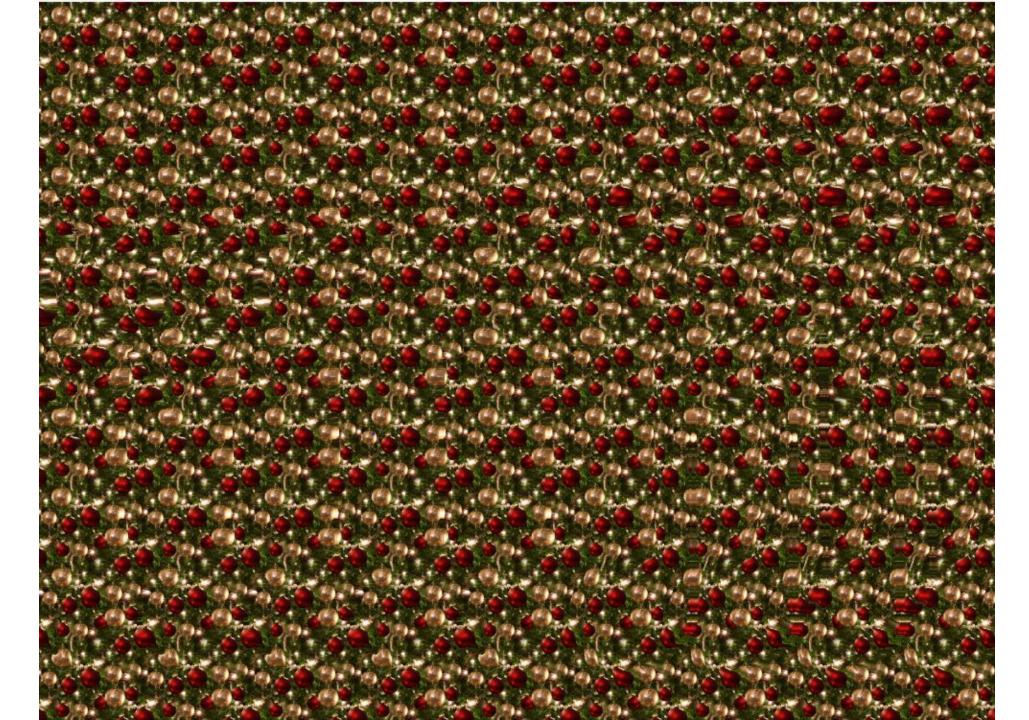


Guiding Inoughts:

-About the Tuner About Listening □ About Students' Skill-Development lus, some recommende Resources

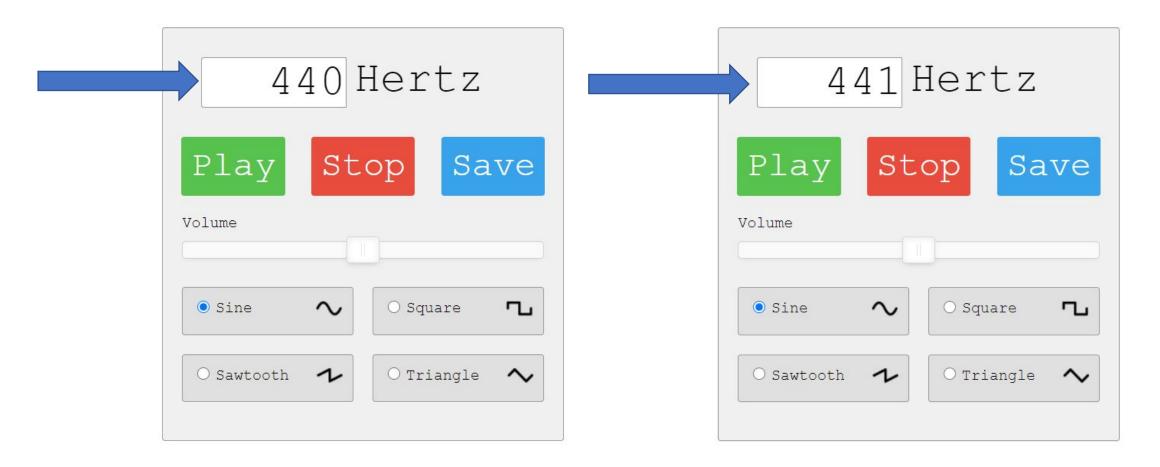
First, students must <u>hear it</u>





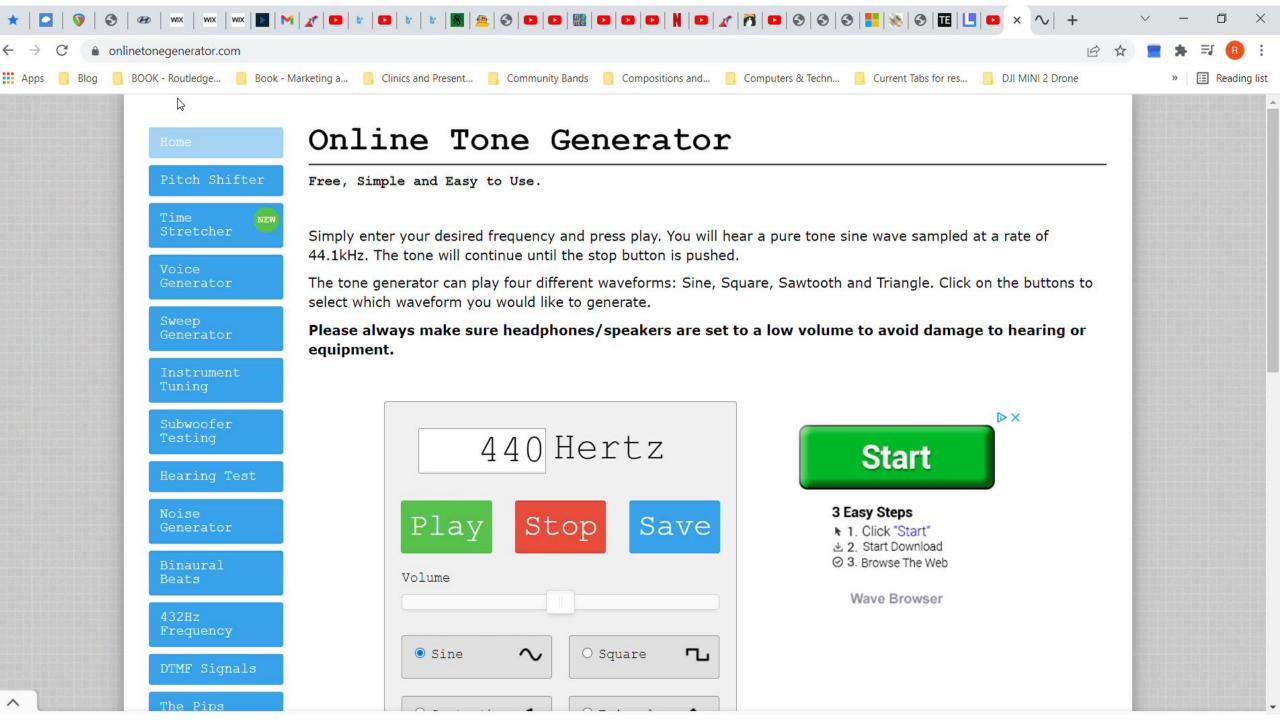
TWO tabs using "Online Tone Generator"

https://onlinetonegenerator.com/



Then USE THIS KNOWLEDGE with practical applications:

Playing in "Trios" ... Pitch-Bending ... Measurable Games ... Randomness Activities



The best "Tuner"
in your bandroom
is . . .

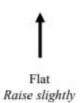
the well-trained ear!

- Can you hear the *beats* when you're playing out of tune?" Train them!
- "Have you learned skills to *raise* and to *lower* badly-tuned notes to improve intonation?" Practice pitch-bending, alternate fingerings, embouchure control, etc.
- ✓ "Do you know about your instrument's bad notes and other factors so you can predict intonation problems before they happen?" Complete intonation maps

Give students shorthand marks to identify bad pitches; Suggestions ...

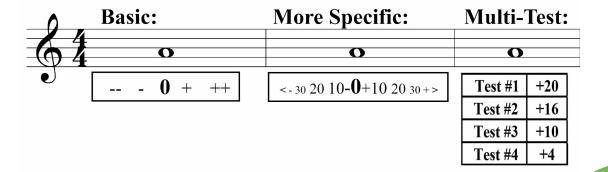












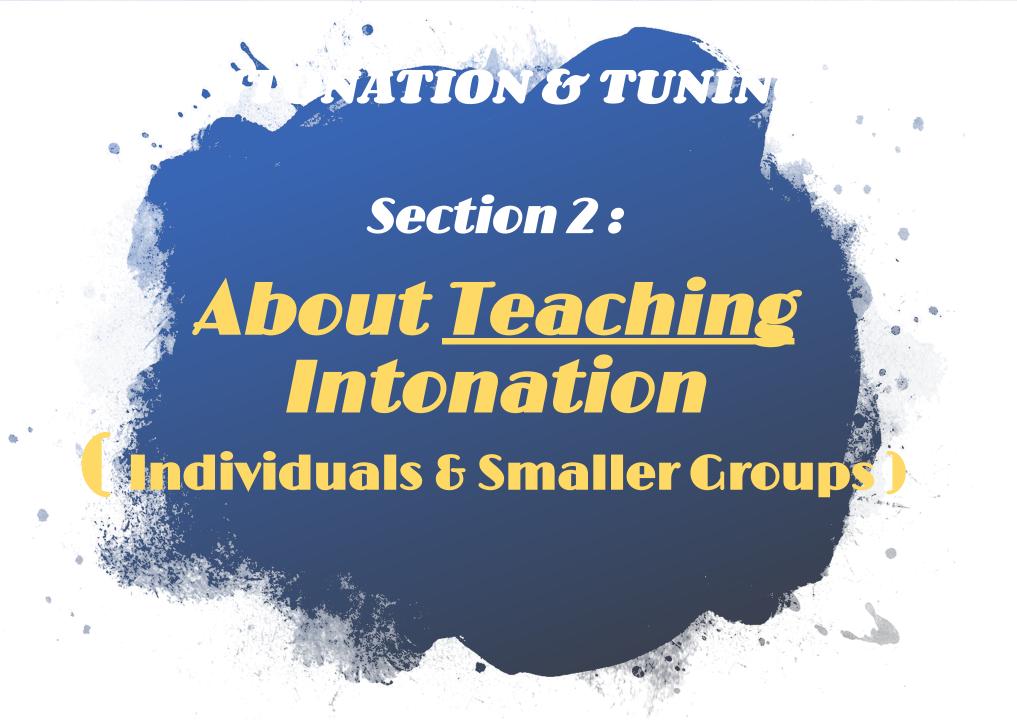


The "Tuning Map"

These are only suggested possibilities:

Remember also to

evaluate pitches at pp - mf - ff



SUSTAINED

Targeting

"as heard by the musical ear"

in a melodic line

FLASH Targeting

as "prepped" by the musical ear

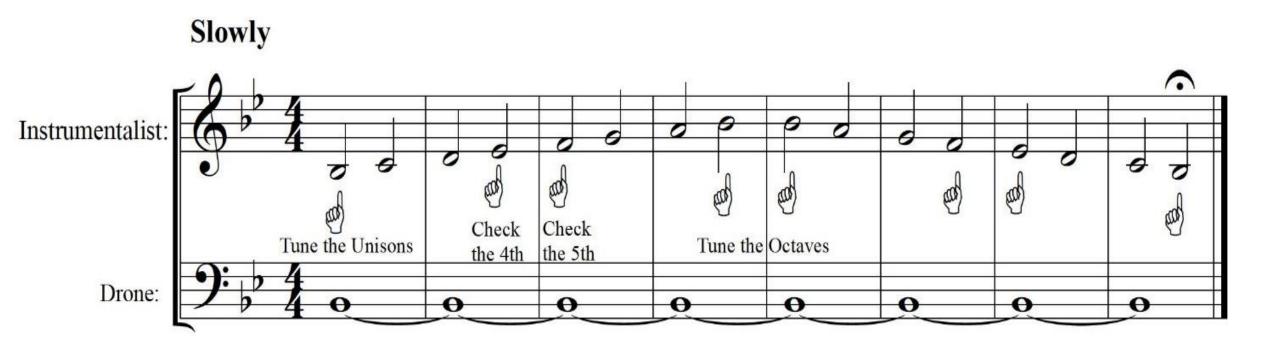
"Targeting"

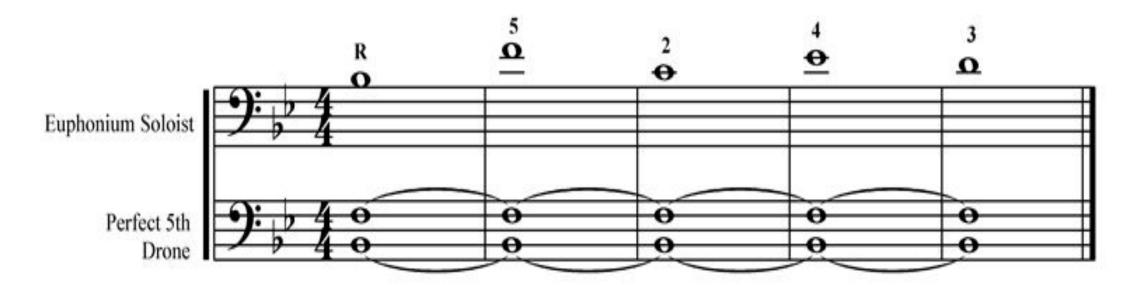
Strategies

A <u>Two-Tuner</u> Approach:

as "heard", then "seen".

Some exercises utilizing *Drones* ...





Do (Root)

- Tunes as a unison with the bottom of the drone, and a 5th from the top

Sol (5)

- Tunes as a 5th above the bottom of the drone, but a unison with the top

Re (2)

- Tunes as a Major 2nd above Do while also a Perfect 4th below Sol

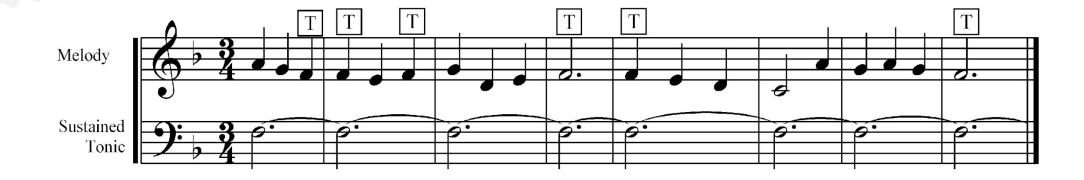
Fa (4)

 Tunes the Perfect 4th above Do and a Major 2nd below Sol, <u>plus</u> it helps students hear the typical voice leading as it drops to ...

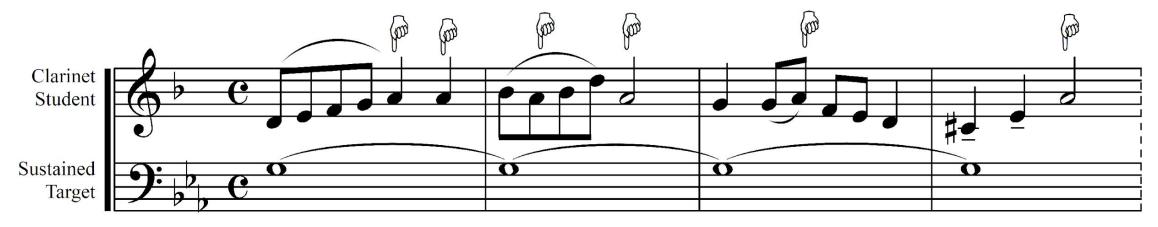
Mi (3)

— This becomes the first step to helping students hear a tempered 3rd in a Major chord. In order for this tone to sound "in tune", it must be played slightly lower than normal, and students can hear beats if it's left too high. To sound in tune, the "D" here must align with the slightly-flat D found as the fifth partial in the harmonic series on B-flat.

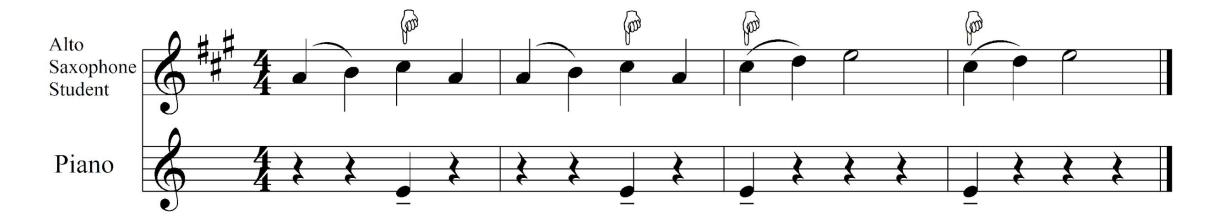


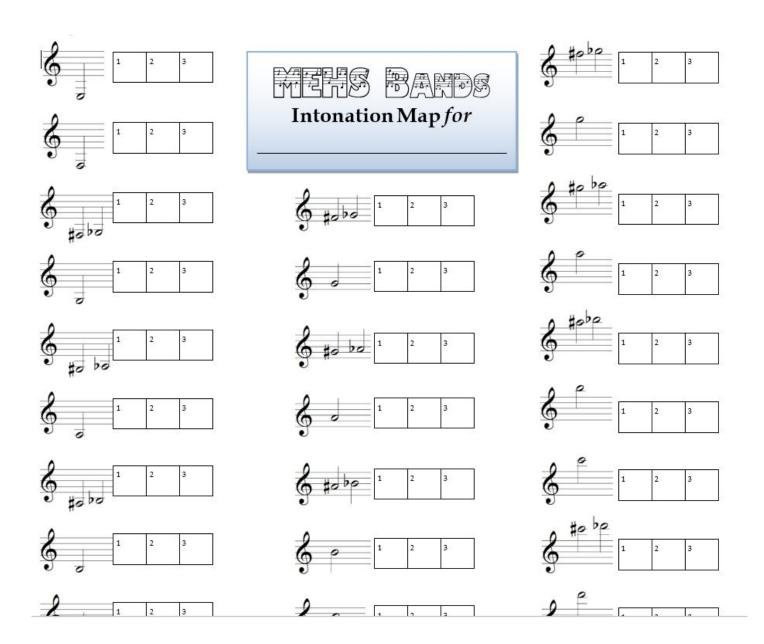


Sustaining a Target for a "problem" pitch (here, the Clarinetist's Throat A)



Using a Piano to spot-check a problem pitch





ABOUT INTONATION MAPS

https://goo.gl/AykLD6



A Sample project for you to revise:

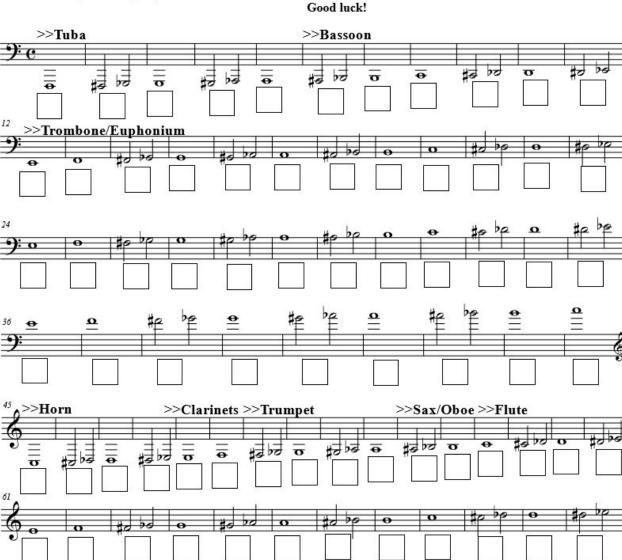
http://www.cherokeebluffband.com/uploads/ 2/1/1/9/21192838/pitch-tendencies-and-into nation-mapping.pdf

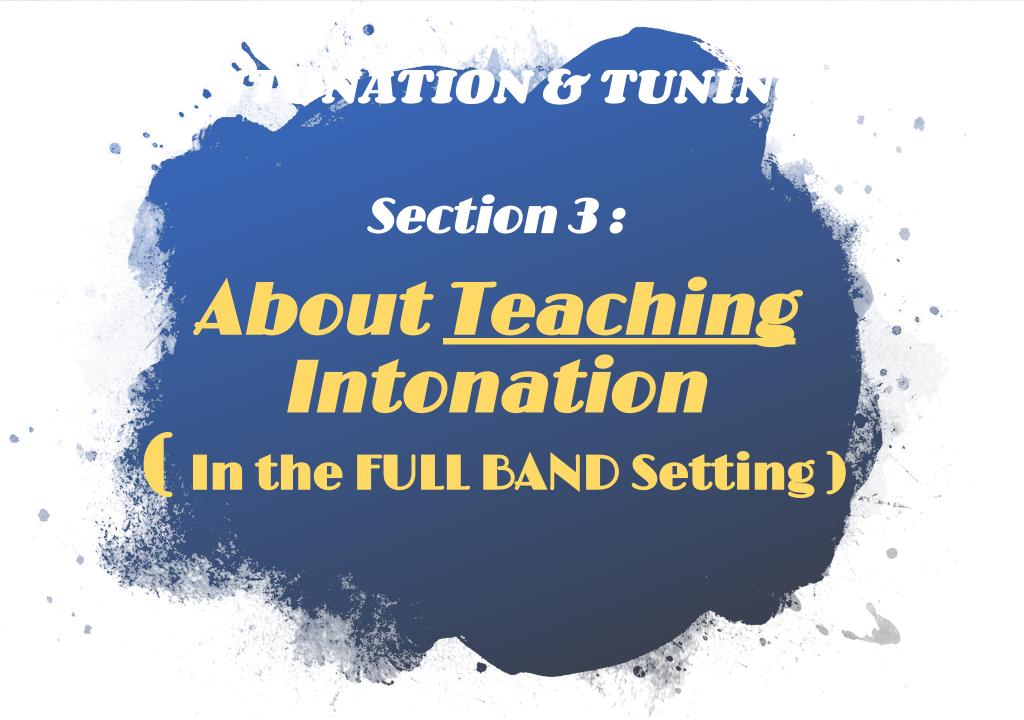
- From Cherokee Bluff Bands, GA

Intonation Tendencies

R. Linaberry

Before completing this chart, make sure you are generally *IN TUNE* with a tuner, whether you use concert B-Flat, A or F (or all of them!). Then, play carefully through your entire range against a tuner. Mark your own pitch-tendencies, using "+25" for twenty-five cents sharp, or "-10" for ten-cents flat. I recommend letting a friend do the markings for you while watching the tuner so you won't be tempted to adjust. Once you have your chart finished, check it often while also making sure you're addressing the BAD notes. Anything more than 5-10 cents out-of-tune must become part of your personal performance memory. Then, come up your "repairs" for those problematic notes (alternate fingerings, airstream, embouchure changes, covering', etc.).





? ... but how should I tune the Band ...

"TUNING (SBY PHIE PHIE PHIE)" WBERS"

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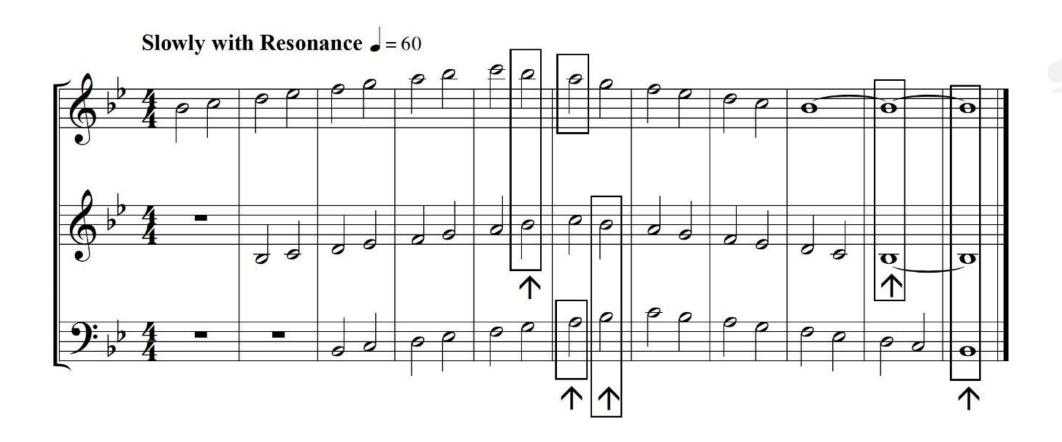


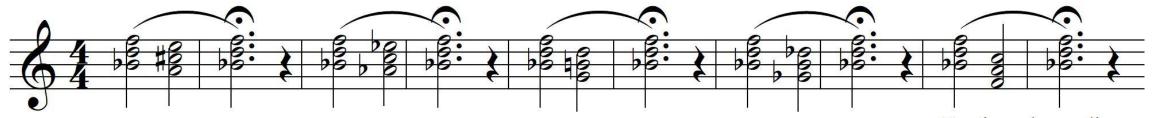
Extracted from "Tuning By The Tumbers"

- 1 **Tubas:** B^b. Match the *given* pitch, then match each other to reach a <u>beatless</u> unison. Hold. Continue to hold. When you pass out, keep holding.
- **2 Baritone Sax (G), Bass Clarinet (C), Contra-Alto Clarinet (G)**. Test, adjust and hold.
- 3 Trombones, Euphoniums: Check B^b, then F. Adjust as needed, then hold *one*. Tenor Sax: Check low G, high G, and C, adjusting as needed. Hold *one*. Bassoon: Slur downward B^b A G F. Adjust for F, then hold B^b or F.
- 4 Alto Sax: Check low G, then high G. Adjust as necessary. Then check both middle and low D (adjust embouchure or fingerings to tune D's, but don't re-tune). Hold G.
- 5 Horns: Play the following four notes slowly (watch the conductor) G A B C. When you pass A, the band will have a major chord for the first time. When you arrive at C, test both sides (open = F Horn; Thumb = B^b Horn), then adjust the main & B^b /F tuning slides to get C in tune equally on both sides. Hold either C, keeping the right hand in proper position.
- 6 Clarinets: Open G (adjust at the *barrel*), then Clarion G & Chalumeau C (adjust at the *middle joint*), then Clarion C (adjust at the *bell joint*).

 Test Altissimo C (adjust the *embouchure*). Hold any C or G.
- 7 Oboes, Flutes: Bb (adjust for tuning), then F (further adjust as necessary). Important Test both octaves. Hold Bb or F.
- **8 Trumpets**: On cue, play "*Sol-La-Ti-Do*" or "G-A-B-C". Use both the G and the C to adjust the main tuning slide. Note: be careful to tune in the register in which you'll play most of your music.

Percussion: At any time during the process, add softly-rolled Bb and/or F at the marimba and/or vibes. Timpani can also check the low F (probably "heel down" on the 29" open drum) and B^b (probably "heel down" on the 26" open drum). When those are tuned, raise the 29" to match the sound of B^b, and check/adjust the letters on the tuning gauge, if the instruments have gauges. Raise the 26" to high F, and check/adjust the gauge.

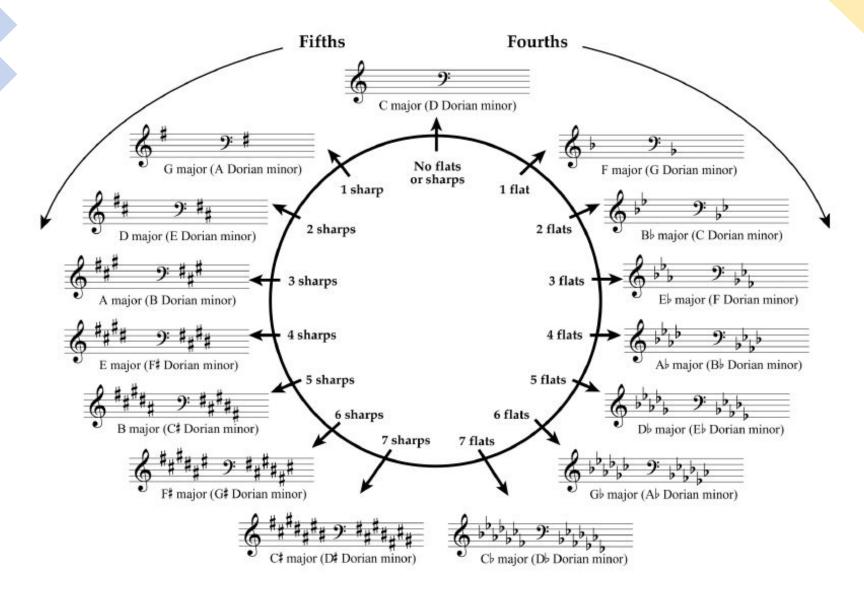




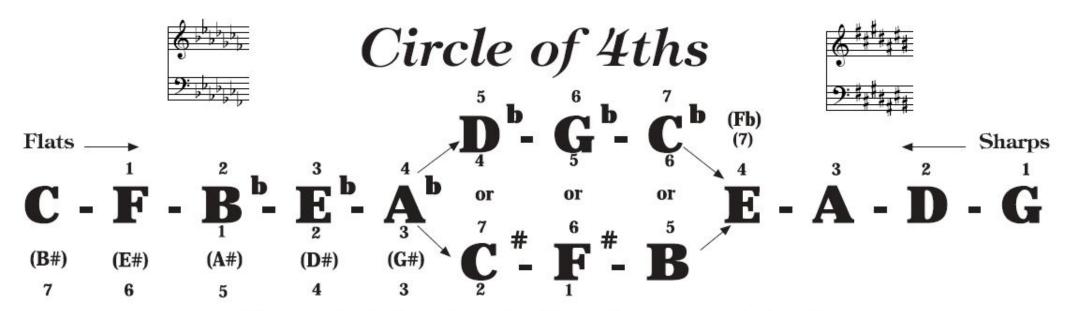
Continue descending by half-steps

The "Remington"

(condensed to a single Staff)



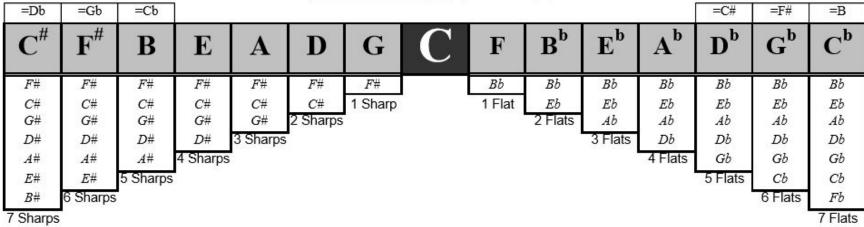
Jamey Aebersold (How to Play and Improvise Jazz) — "The Circle or Cycle of Fourths" — Used by permission



The top number indicates the number of flats or sharps in that particular scale. The bottom number indicates the correct order of flats or sharps.

Edward S. Lisk (from "The Creative Director" Series) — "The Circle or Cycle of Fourths" — Used by permission

The "Circle of Keys", unwrapped ...



The Flats appear in Key Signatures in this order:

E

A

G

D

D

C

E

G

A

F

В

Download your copy:

www.robinlinaberrymusic.com

/book-resources

RW 5.2

Figuring out the name of a Major Key when you can see the Key Signature:

- 1) For SHARP keys, the last sharp in the Key Signature is Ti. Go up 1/2 step to the very next line or space to find the name of the Major Key.
- 2) For FLAT keys, the last flat in the Key Signature is Fa. Count down four notes "Fa-Mi-Re-Do" to find the name of the Major Key. NOTE: Coincidentally, the next-to-last flat IS the name of the Major Key. This only works with Flat keys!!

Figuring out the Key Signature when you know the name of the Key or Scale:

- 1) First, determine if it's a SHARP Key or a FLAT Key. Notice that "F" is the only Flat key without a flat in its name!
- 2) Next, use the "Musical Alphabet" to create a basic scale before adding the Key. Example: "EFGABCDE"
- 3A) Now, if it's a Sharp key, remember that "the last sharp in the Key Signature is Ti". Add a sharp to the 7th note, or "Ti".

 Using the order of the sharps, simply keep adding sharps until you've reached the last sharp on "Ti". See above: E F# G# A B C# D# E
- 3B) If it's a Flat key, remember that "the last flat in the Key Signature is Fa". Add a flat to the 4th note, or "Fa".

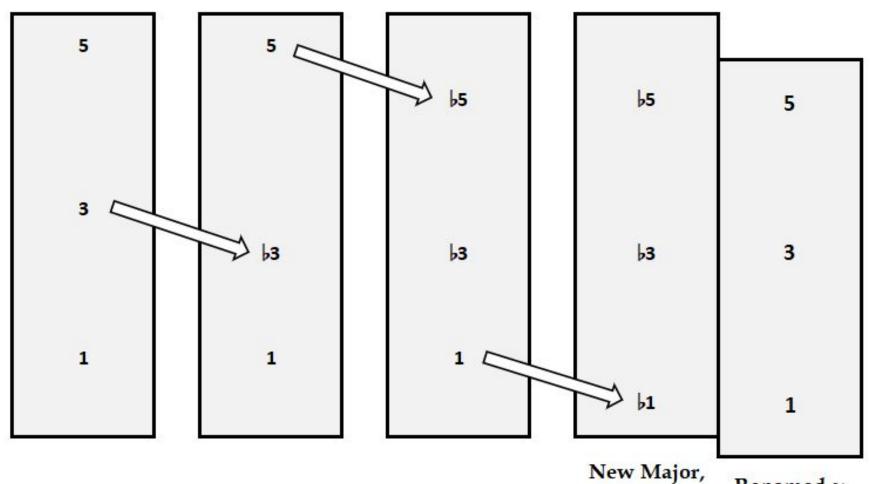
 Using the order of the flats, simply keep adding flats until you've reached the last flat on "Fa". Using the key of Ab: Ab Bb C Db Eb F G Ab

Some guidelines for figuring out Transpositions:

"C" instruments play the "Concert" Key. If asked for "Concert Ab Major", simply play Ab Major.

Notice that the Sharps appear in exactly the opposite, or BACKWARDS, order:

- "F" instruments play a Perfect 5th above Concert Key. Subtract 1 b, or add 1 #: go 1 Key to the LEFT, above. "Ab" becomes Eb.
- "Bb" instruments play a whole-step above Concert Key. Subtract 2 b's, or add 2 #'s: go 2 Keys to the LEFT. "Ab" becomes Bb.
- "Eb" instruments play a Major 6th above Concert Key. Subtract 3 b's, or add 3 #'s: go 3 Keys to the LEFT. "Ab" becomes F.



Major

Ex: **B**^b - **D** - **F**

minor

B^b - **D**^b - F

diminished

a semitone lower

 $B^{b} - D^{b} - F^{b}$ $B^{bb} - D^{b} - F^{b} = A - C^{\#} - E$

Renamed ~ start again

With scale degrees (numbers) or Solfege (syllables), musicians can perform simple melodies or even full *Chorales* in any Key

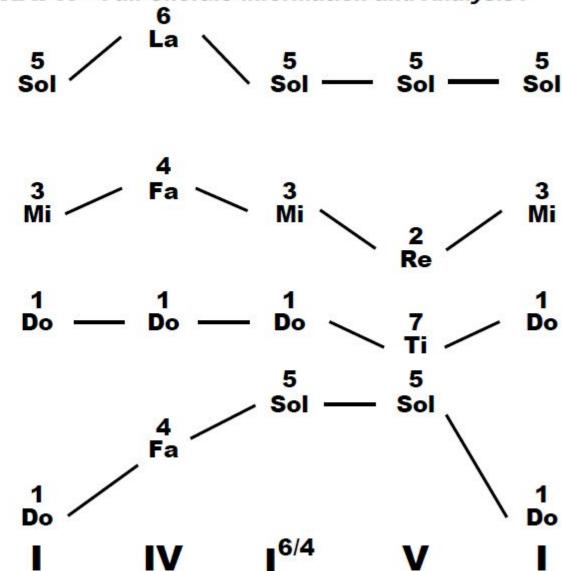
Numbers for Scale Degrees:

Soprano:	5	6	5	5	5
Alto:	3	4	3	2	3
Tenor:	1	1	1	7	1
Bass:	1	4	5	5	1

Solfege (Sing it too!):

Soprano: Sol La Sol Sol Sol Fa Mi Re Alto: Mi Tenor: Do Do Do Do Fa Sol Sol Do Bass:

GRAPH - Full Chorale information and Analysis:

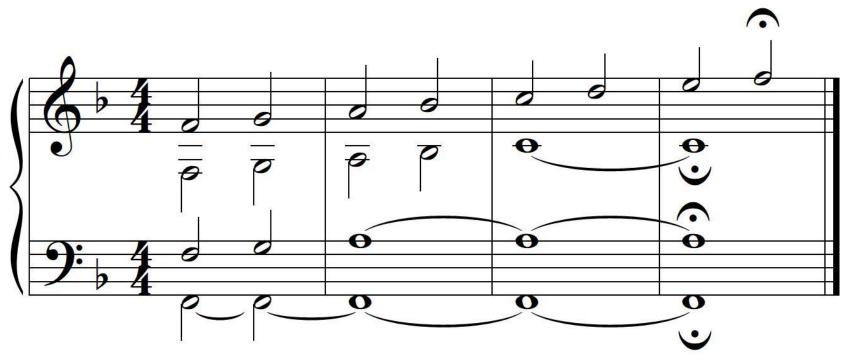


Group 1: Play the entire Scale

Group 2: Arrive and hold "Sol"

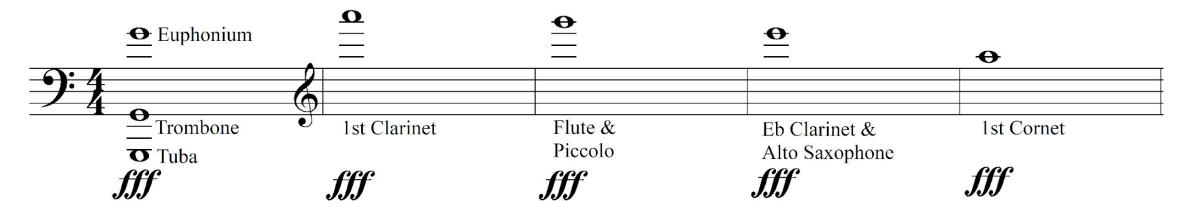
Group 3: Arrive and hold "Mi"

Group 4: Hold "Do"



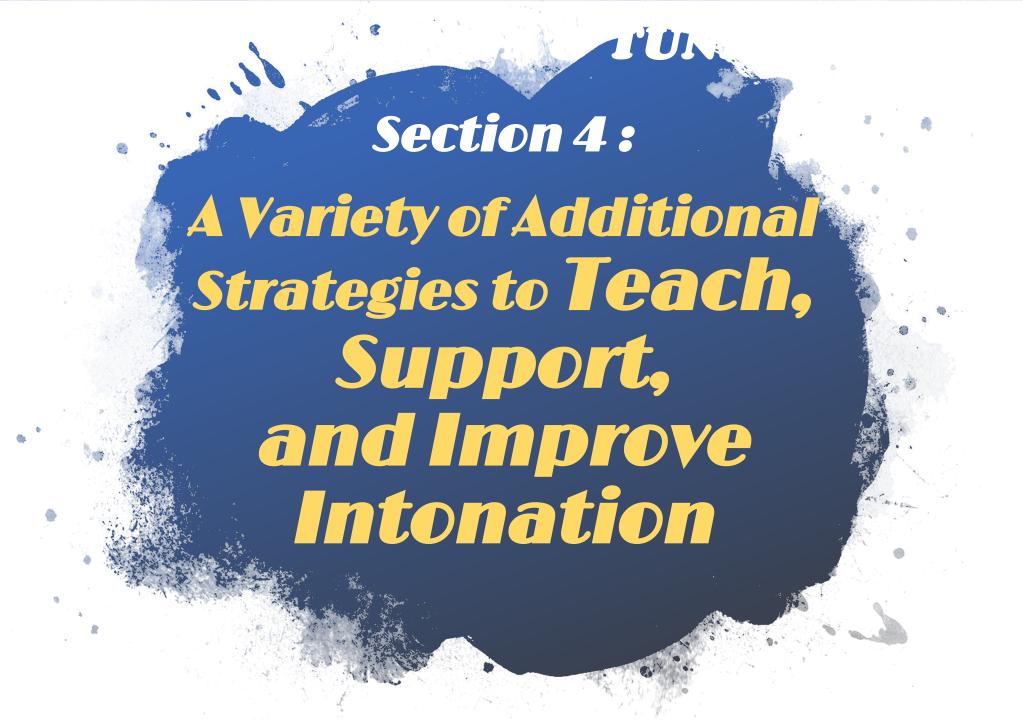
A method to improve a specific chord

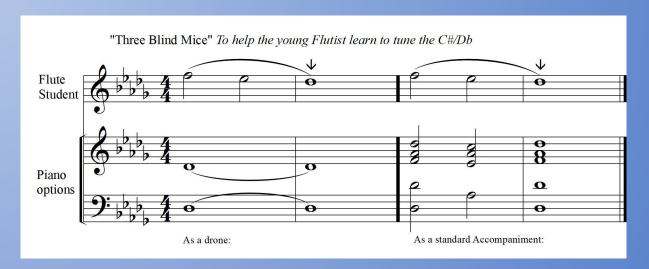
- 1. Identify the problematic chord
- 2. Move pitches to the "Comfort Zone": best Octave, and mezzo Dynamic
- 3. Tune the chord carefully
- 4. Gradually (one-by-one, perhaps) move players back to the pitches in the problem setting



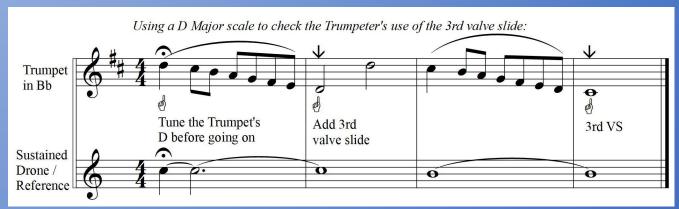
This chord (above) happens at the "climax" moment in "Elegy For A Young American" (Lo Presti).

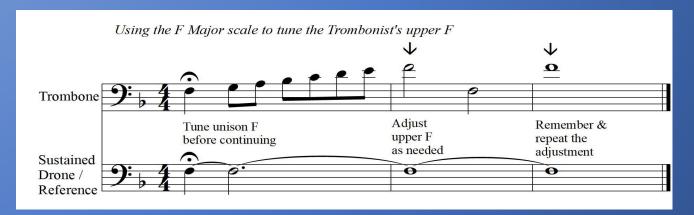
These are the printed pitches!!





Targeting Common TuningProblems: More Drone Examples





A random sampling of Quick-Fix Ideas:

- 1. "The faster the beats, the further out-of-tune" (and vice-versa)
- 2. Demonstrate beats with amplified strings (Guitar/Bass). Add a 'wet' snare to enhance the effect.
- 3. Try a 90-degree shift in viewing the Tuner's display ("up" = sharp; "down" = flat)
- 4. Sustain a "straight-line" sound ~ make the tuner's display stay motionless
- 5. "When in doubt, pull it out." However....
- 6. ... watch students (and instruments) carefully for irregularities.
- 7. Hum the tuning pitch before playing. Try Plugging one ear while playing (what?!!)
- 8. "Sing (loo) the note of your chord" ... "now play it"
- 9. "Pause after that fermata: now think of the next sound" (audiate) ... "let's sing it before we play it."
- 10. Use Parallel 4ths-5ths to hear the beatless open interval (Scales; Fugue Subjects; alma mater; etc.)
- 11. Recording-playback strategies (e.g. L-R microphones isolating two different students; multi-tracking)
- 12. Transpose for improvement (i.e. when the "D Major" chord sounds bad, tune the "D-flat Major" chord instead, and then move the well-tuned sound up a semitone)
- 13. Use resonance in the recipe for better tuning (e.g. sympathetic vibration of Piano strings; Timpani & DoubleBass tuning; 'detune' percussion to avoid room-rumble)
- 14. Train a few students (e.g. Section Leaders) to be Tuner Mentors: they'll teach others how to use Tuners
- 15. Create an 'Instant Chorale' in the accompaniment instruments ("Sustain Beat 1 for the whole measure") to focus on allowing *Melody Instruments* to tune over the basic chord-progression

A word about alternate fingerings

(and slide positions, of course)



But what about the instruments?!

Equipment / Valve-Slides / Repair-Maintenance / Clarinet Joints / Temperature / Fatigue

etcetera ad infinitum...

Two highly-recommended resources:

Tuning for Wind Instruments:

A Roadmap to Successful Intonation

Shelley Jagow, Ph.D. (2012, Meredith Music Publications)

This publication offers (among other strengths):

- Outstanding fingering charts, marked with Intonation Tendencies
- Blank Intonation Charts (the "maps")
- Lists of instrument-specific tuning processes
- A guide to tuning Brass Instrument valves
- An innovative listing of "Tuning Truths"
- And a wide variety of well-researched charts and scientific/acoustical information

The "Tonal Energy" App

https://www.tonalenergy.com/

Additional Recommended Reading

"Building Balance, Taming Tone, and Making Cents of Intonation (blog essay – Dr. Shelley Jagow)

https://banddirectorstalkshop.com/building-balance-taming-tone-and-making-cents-of-intonation/

"Escaping the Pyramid" (from the SBO Magazine archives)

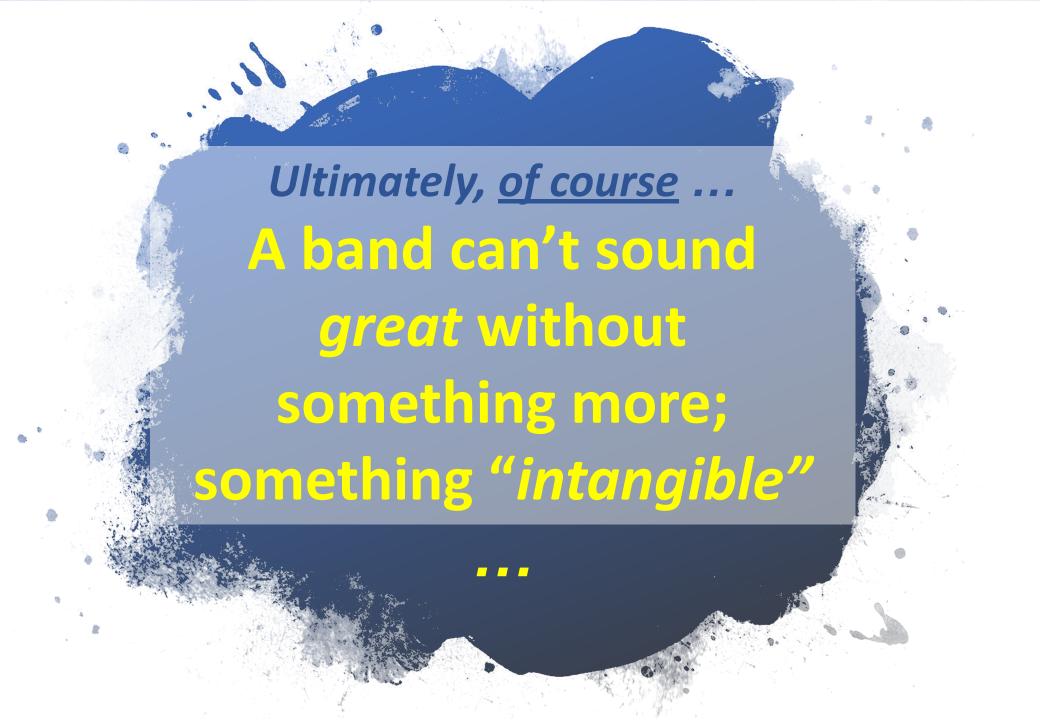
https://sbomagazine.com/51escaping-the-pyramid-trap-reconstructing-conceptions-of-balance/

"Tone, Intonation, and The Young Band" (A Midwest Clinic presented by Chip De Stefano)

http://www.mccrackenband.com/resources/articles/beyond2.shtml

"The Power of UNISON" (A Kjos Webinar presented by David Newell)

https://www.youtube.com/user/KjosMusicPublishing/videos



t h isi squ iteas im plesen ten cebu ti...tsh ar d tore ad

= This is quite a simple sentence but it's hard to read.



Students will need to understand *note-grouping*, *phrasing* (*breathing*), *tension-release concepts*, *style* & "*feel*", *imagery*, *emotional connections* (moods/colors/textures/temperatures/etc.), and *so much more*.

AND, they need to do it all independently.

That's an entire presentation! Sometime soon, look for...

"Teaching the Intangibles, Tangibles!"





Strategies, Tips, and Activities for the Effective Band Director

Targeting Student Engagement and Comprehension

Robin Linaberry



Robin Linaberry

"Strategies, Tips, and Activities for the Effective Band Director"

Routledge (The Taylor & Francis Group) 2021

www.robinlinaberrymusic.com

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Thank you for attending!