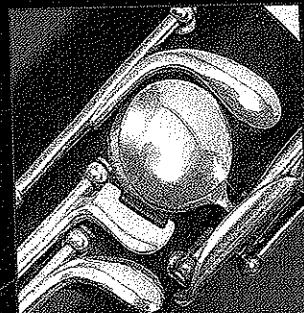
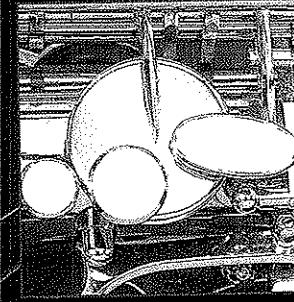
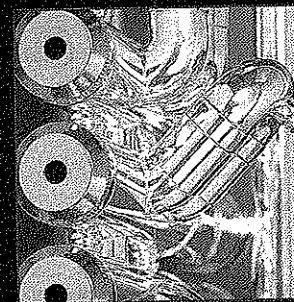
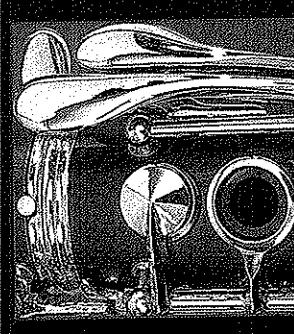
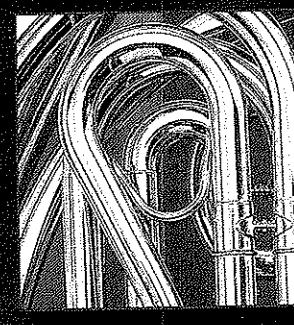
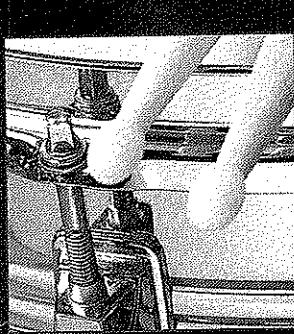
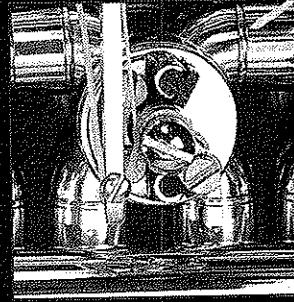
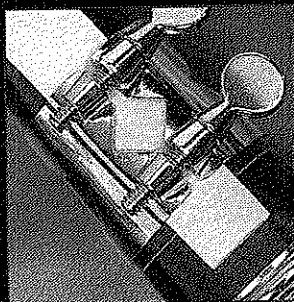
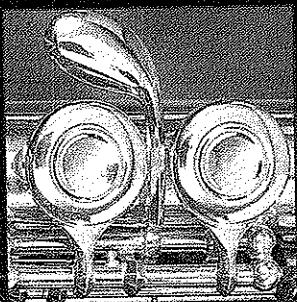


FOUNDATIONS FOR SUPERIOR PERFORMANCE

Warm-Ups & Technique for Band

Richard Williams & Jeff King



NEIL A. KJOS
MUSIC COMPANY
PUBLISHER

Euphonium B.C. Fingering Chart

(Non Compensating)

Notes on gray background are pedal tones.

| A♯ | B♭ | B | C | C♯ | D♭ | D |
|----|----|---|---|----|----|---|
| | | | | | | |

| D♯ | E♭ | E | F | F♯ | G♭ | G | G♯ | A♭ |
|----|----|---|---|----|----|---|----|----|
| | | | | | | | | |

| A | A♯ | B♭ | B | C | C♯ | D♭ | D |
|---|----|----|---|---|----|----|---|
| | | | | | | | |

| D♯ | E♭ | E | F | F♯ | G♭ | G | G♯ | A♭ |
|----|----|---|---|----|----|---|----|----|
| | | | | | | | | |

| A | A♯ | B♭ | B | C | C♯ | D♭ |
|---|----|----|---|---|----|----|
| | | | | | | |

| D | D♯ | E♭ | E | F | F♯ | G♭ |
|---|----|----|---|---|----|----|
| | | | | | | |

| G | G♯ | A♭ | A | A♯ | B♭ | B | C |
|---|----|----|---|----|----|---|---|
| | | | | | | | |

(When more than one fingering is shown, the first is the most common.)

Foundations for Superior Performance

Warm-Ups and Technique for Band

by Richard Williams and Jeff King

A comprehensive and sequential book of warm-ups, scales, technical patterns, chord studies, tuning exercises, and chorales for concert band.

Designed to organize the daily rehearsal and advance the performance level of the ensemble.

Practical and efficient exercises in all twelve major keys developed in the classroom.

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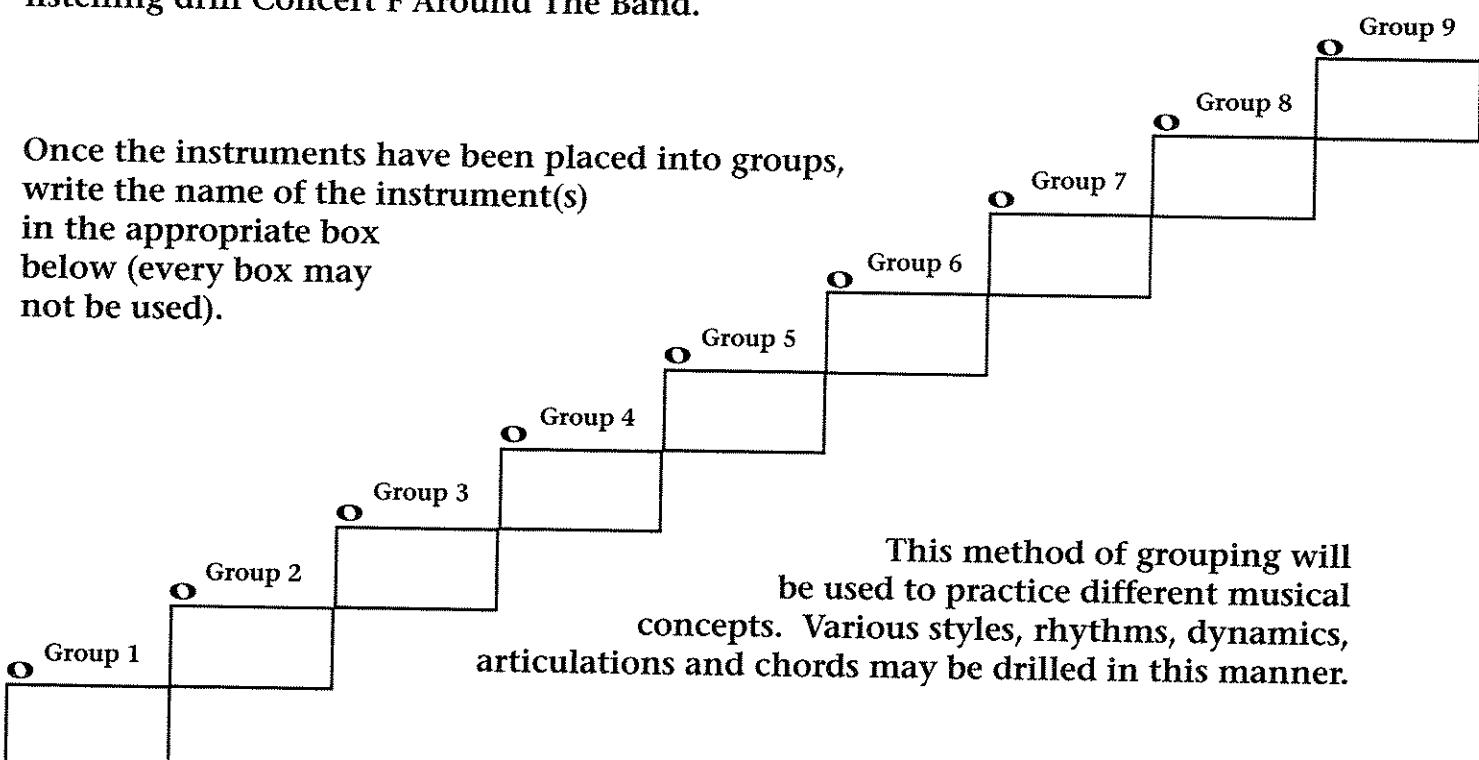
Concert F Around The Band

Each instrument will play concert F in their middle register. The euphonium is a concert pitched instrument, there is no transposition for the euphonium.

Copy the note in measure one into measure two.

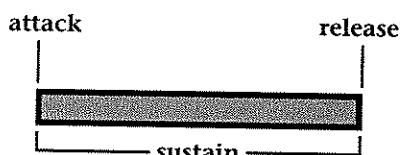


Your director will divide the band into various sections or groups for the listening drill Concert F Around The Band.



As you play the exercise, keep the following concepts in mind:

- match the primary parts of each note (attack-sustain-release)
- work for a smooth shape to each note (no bumps in the sound)
- hand off tenuto notes (full value) without creating "holes" between the attacks
- match intonation, intensity, volume, tone quality, and the "body of sound"
- be aware of the different colors (timbres) of the instrument groups and their location in the room
- listen from the bottom groups and balance low-middle-high



Articulation Exercises

Articulations: A Study in Styles

Four connected quarter-notes (tenuto). The sound of one note "touches" the next note.

A musical staff in bass clef and common time. It contains four quarter notes. The first note has a solid vertical bar below it. The second note has a vertical bar that begins at its start and ends at its end. The third note has a vertical bar that begins at its start and ends at its end. The fourth note has a solid vertical bar below it. Below the staff is a horizontal bar divided into four segments by vertical lines. The first segment is filled with dots, the second is solid black, the third is filled with dots, and the fourth is solid black.

Four quarter-notes in "lifted" style. The attack is the same as tenuto, but the end of the note is tapered.

Four quarter-notes "lifted and short" (staccato). Separated and detached (half full value).

Eighth-notes in connected style.

A musical staff in bass clef and common time. It contains eight eighth notes. The first note has a solid vertical bar below it. The second note has a vertical bar that begins at its start and ends at its end. The third note has a vertical bar that begins at its start and ends at its end. The fourth note has a solid vertical bar below it. The fifth note has a vertical bar that begins at its start and ends at its end. The sixth note has a vertical bar that begins at its start and ends at its end. The seventh note has a solid vertical bar below it. The eighth note has a vertical bar that begins at its start and ends at its end. Below the staff is a horizontal bar divided into eight segments by vertical lines. The first segment is filled with dots, the second is solid black, the third is filled with dots, the fourth is solid black, the fifth is filled with dots, the sixth is solid black, the seventh is filled with dots, and the eighth is solid black.

Eighth-notes in lifted and short style.

A musical staff in bass clef and common time. It contains eight eighth notes. Above each note is a small '3' indicating a triplet. The first note has a solid vertical bar below it. The second note has a vertical bar that begins at its start and ends at its end. The third note has a vertical bar that begins at its start and ends at its end. The fourth note has a solid vertical bar below it. The fifth note has a vertical bar that begins at its start and ends at its end. The sixth note has a vertical bar that begins at its start and ends at its end. The seventh note has a solid vertical bar below it. The eighth note has a vertical bar that begins at its start and ends at its end. Below the staff is a horizontal bar divided into eight segments by vertical lines. Each segment contains three small squares, representing three distinct attacks per note.

Sixteenth-notes in a connected style.

A musical staff in bass clef and common time. It contains twelve sixteenth notes. Above each note is a small '3' indicating a triplet. The first note has a solid vertical bar below it. The second note has a vertical bar that begins at its start and ends at its end. The third note has a vertical bar that begins at its start and ends at its end. The fourth note has a solid vertical bar below it. The fifth note has a vertical bar that begins at its start and ends at its end. The sixth note has a vertical bar that begins at its start and ends at its end. The seventh note has a solid vertical bar below it. The eighth note has a vertical bar that begins at its start and ends at its end. The ninth note has a solid vertical bar below it. The tenth note has a vertical bar that begins at its start and ends at its end. The eleventh note has a solid vertical bar below it. The twelfth note has a vertical bar that begins at its start and ends at its end. Below the staff is a horizontal bar divided into twelve segments by vertical lines. Each segment contains three small squares, representing three distinct attacks per note.

Articulation Exercise on Concert F

Articulation exercise on concert F. The exercise consists of five staves of music, numbered 1 through 20. Staff 1: Open circle, dash, dash, open circle, dash, dash. Staff 2: Dash, dash. Staff 3: Dash, dash. Staff 4: Dash, dash. Staff 5: Dash, dash. Staff 6: Dash, dash. Staff 7: Dash, dash. Staff 8: Dash, dash. Staff 9: Dash, dash. Staff 10: Dash, dash. Staff 11: Dash, dash. Staff 12: Dash, dash. Staff 13: Dash, dash. Staff 14: Dash, dash. Staff 15: Dash, dash. Staff 16: Dash, dash. Staff 17: Dash, dash. Staff 18: Dash, dash. Staff 19: Dash, dash. Staff 20: Dash, dash. * opt. ending on whole note

*Long Tones**Concert F Descending*

1

Bass clef, C key signature.

Notes: 1 (p), 2 (p), 3 (p), 4 (p), 5 (p), 6 (d), 7 (bd).

Notes: 8 (p), 9 (bd), 10 (d), 11 (p), 12 (d), 13 (d), 14 (d).

2

Notes: 1 (p), 2 (p), 3 (d), 4 (d).

Long Tone 1

1a

Notes: 1 (p), 2 (p), 3 (p), 4 (bp), 5 (p), 6 (p), 7 (bp).

Notes: 8 (p), 9 (d), 10 (d), 11 (p), 12 (p), 13 (bd), 14 (p).

1b

Notes: 1 (bd), 2 (bd), 3 (bd), 4 (bd), 5 (bd), 6 (bd), 7 (bd).

Notes: 8 (bd), 9 (bd), 10 (bd), 11 (bd), 12 (bd), 13 (bd), 14 (bd).

1c

Notes: 1 (p), 2 (bp), 3 (p), 4 (p), 5 (bp).

Notes: 6 (p), 7 (p), 8 (p), 9 (p), 10 (bp).

1d

Notes: 1 (bp), 2 (p), 3 (bp), 4 (bp), 5 (bp), 6 (p).

Notes: 7 (bp), 8 (bp), 9 (bp), 10 (bp), 11 (bp), 12 (d).

Long Tone 2

A musical staff in bass clef (C) spanning 26 notes. The notes are grouped into seven sets of three, each set enclosed in a bracket. The notes are: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26.

Long Tone 3

3a intervals of a minor 2nd

A musical staff in bass clef (C) spanning 8 notes. The notes are: 1, 2, 3, 4, 5, 6, 7, 8.

intervals of a major 2nd

intervals of a minor 3rd

A musical staff in bass clef (C) spanning 8 notes. The notes are: 9, 10, 11, 12, 13, 14, 15, 16.

intervals of a perfect 4th

intervals of an augmented 4th

A musical staff in bass clef (C) spanning 8 notes. The notes are: 17, 18, 19, 20, 21, 22, 23, 24.

intervals of a perfect 5th

A musical staff in bass clef (C) spanning 4 notes. The notes are: 25, 26, 27, 28.

3b intervals of a minor 2nd

intervals of a major 2nd

intervals of a minor 3rd

A musical staff in bass clef (C) spanning 6 notes. The notes are: 1, 2, 3, 4, 5, 6.

intervals of a major 3rd

intervals of a perfect 4th

intervals of an augmented 4th

A musical staff in bass clef (C) spanning 6 notes. The notes are: 7, 8, 9, 10, 11, 12.

Warm-Up Set 1

Options 1, 2, & 3

The image shows three staves of musical notation for bass clef. Each staff is divided into four measures, labeled 1 through 14. Measure 1 starts with a quarter note followed by a eighth note. Measure 2 starts with a eighth note followed by a quarter note. Measure 3 starts with a quarter note followed by a eighth note. Measure 4 starts with a eighth note followed by a quarter note. Measure 5 starts with a quarter note followed by a eighth note. Measure 6 starts with a eighth note followed by a quarter note. Measure 7 starts with a quarter note followed by a eighth note. Measure 8 starts with a eighth note followed by a quarter note. Measure 9 starts with a quarter note followed by a eighth note. Measure 10 starts with a eighth note followed by a quarter note. Measure 11 starts with a quarter note followed by a eighth note. Measure 12 starts with a eighth note followed by a quarter note. Measure 13 starts with a quarter note followed by a eighth note. Measure 14 starts with a eighth note followed by a quarter note.

Option 4

The image shows three staves of musical notation for bass clef. Each staff is divided into four measures, labeled 1 through 14. Measure 1 starts with a quarter note followed by a eighth note. Measure 2 starts with a eighth note followed by a quarter note. Measure 3 starts with a quarter note followed by a eighth note. Measure 4 starts with a eighth note followed by a quarter note. Measure 5 starts with a quarter note followed by a eighth note. Measure 6 starts with a eighth note followed by a quarter note. Measure 7 starts with a quarter note followed by a eighth note. Measure 8 starts with a eighth note followed by a quarter note. Measure 9 starts with a quarter note followed by a eighth note. Measure 10 starts with a eighth note followed by a quarter note. Measure 11 starts with a quarter note followed by a eighth note. Measure 12 starts with a eighth note followed by a quarter note. Measure 13 starts with a quarter note followed by a eighth note. Measure 14 starts with a eighth note followed by a quarter note.

Option 5

The image shows three staves of musical notation for bass clef. Each staff is divided into four measures, labeled 1 through 14. Measure 1 starts with a quarter note followed by a eighth note. Measure 2 starts with a eighth note followed by a quarter note. Measure 3 starts with a quarter note followed by a eighth note. Measure 4 starts with a eighth note followed by a quarter note. Measure 5 starts with a quarter note followed by a eighth note. Measure 6 starts with a eighth note followed by a quarter note. Measure 7 starts with a quarter note followed by a eighth note. Measure 8 starts with a eighth note followed by a quarter note. Measure 9 starts with a quarter note followed by a eighth note. Measure 10 starts with a eighth note followed by a quarter note. Measure 11 starts with a quarter note followed by a eighth note. Measure 12 starts with a eighth note followed by a quarter note. Measure 13 starts with a quarter note followed by a eighth note. Measure 14 starts with a eighth note followed by a quarter note.

Warm-Up Set 2

Options 1, 2, & 3

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

Option 4

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

Option 5

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

Warm-Up Set 3

Options 1, 2, & 3

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

Option 4

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

Option 5

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

Warm-Up Set 4

Options 1, 2, & 3 - fingerings indicated in parenthesis

1 (2-4 or 1-2-3) 2 (4 or 1-3) 3 (2-3)

6 (1-2) 7 (1)

11 (2) 12 (Open) 13 14

Option 4 - fingerings indicated in parenthesis

1 (2-4 or 1-2-3) 2 (4 or 1-3) 3 (2-3)

6 (1-2) 7 (1)

11 (2) 12 (Open) 13 14

Option 5 - fingerings indicated in parenthesis

1 (2-4 or 1-2-3) 2 (4 or 1-3) 3 (2-3)

5 (1-2) 6 7 (1-2) 8

9 (1) 10 11 (2) 12

13 (Open) 14

Technical Exercises in the Key of Bb

Major Scale

Natural Minor

Harmonic Minor

Melodic Minor

Mini-Scale & Tonic Arpeggio

Scale Pattern *articulations: 1 2 3 4 5 6 7 8

*Scale Pattern 2**

Sheet music for Scale Pattern 2*. The music is in B-flat major (two flats) and 2/4 time. The top staff consists of three measures of eighth-note patterns: measure 1 has eighth-note pairs, measure 2 has eighth-note triplets, and measure 3 has eighth-note pairs again. The bottom staff consists of three measures of eighth-note patterns: measure 1 has eighth-note pairs, measure 2 has eighth-note triplets, and measure 3 has eighth-note pairs again.

*Scale in Thirds**

Sheet music for Scale in Thirds*. The music is in B-flat major (two flats) and 2/4 time. The top staff consists of three measures of eighth-note patterns: measure 1 has eighth-note pairs, measure 2 has eighth-note triplets, and measure 3 has eighth-note pairs again. The bottom staff consists of three measures of eighth-note patterns: measure 1 has eighth-note pairs, measure 2 has eighth-note triplets, and measure 3 has eighth-note pairs again.

Interval Study

Sheet music for Interval Study. The music is in B-flat major (two flats) and 2/4 time. The top staff consists of three measures of eighth-note patterns: measure 1 has eighth-note pairs, measure 2 has eighth-note triplets, and measure 3 has eighth-note pairs again. The bottom staff consists of three measures of eighth-note patterns: measure 1 has eighth-note pairs, measure 2 has eighth-note triplets, and measure 3 has eighth-note pairs again.

Triads of the B-flat Scale

Sheet music for Triads of the B-flat Scale. The music is in B-flat major (two flats) and 2/4 time. The top staff consists of three measures of eighth-note patterns: measure 1 has eighth-note pairs, measure 2 has eighth-note triplets, and measure 3 has eighth-note pairs again. The bottom staff consists of three measures of eighth-note patterns: measure 1 has eighth-note pairs, measure 2 has eighth-note triplets, and measure 3 has eighth-note pairs again.

*Chord Study 1**

Sheet music for Chord Study 1*. The music is in B-flat major (two flats) and 2/4 time. The top staff consists of three measures of eighth-note patterns: measure 1 has eighth-note pairs, measure 2 has eighth-note triplets, and measure 3 has eighth-note pairs again. The bottom staff consists of three measures of eighth-note patterns: measure 1 has eighth-note pairs, measure 2 has eighth-note triplets, and measure 3 has eighth-note pairs again.

Chord Study 2 - articulations:

Sheet music for Chord Study 2 - articulations. The music is in B-flat major (two flats) and 2/4 time. The top staff consists of five measures of eighth-note patterns: measure 1 has eighth-note pairs, measure 2 has eighth-note triplets, measure 3 has eighth-note pairs, measure 4 has eighth-note triplets, and measure 5 has eighth-note pairs again. The bottom staff consists of five measures of eighth-note patterns: measure 1 has eighth-note pairs, measure 2 has eighth-note triplets, measure 3 has eighth-note pairs, measure 4 has eighth-note triplets, and measure 5 has eighth-note pairs again.

Technical Exercises in the Key of F

Major Scale

Two staves of musical notation for the Major Scale in F major. The first staff starts with a C note, and the second staff starts with an E note. Both staves show eighth-note patterns across four measures.

Natural Minor

Two staves of musical notation for the Natural Minor Scale in F major. The first staff starts with a C note, and the second staff starts with an E note. Both staves show eighth-note patterns across four measures.

Harmonic Minor

Two staves of musical notation for the Harmonic Minor Scale in F major. The first staff starts with a C note, and the second staff starts with an E note. Both staves show eighth-note patterns across four measures.

Melodic Minor

Two staves of musical notation for the Melodic Minor Scale in F major. The first staff starts with a C note, and the second staff starts with an E note. Both staves show eighth-note patterns across four measures.

Mini-Scale & Tonic Arpeggio

Two staves of musical notation. The top staff shows a descending eighth-note scale pattern from C to G. The bottom staff shows an eighth-note tonic arpeggio pattern starting on C.

Scale Pattern 1 *articulations:

Two staves of musical notation showing a repeating eighth-note scale pattern (Scale Pattern 1) in F major. The first staff starts with a C note, and the second staff starts with an E note. The pattern consists of eight groups of eighth notes, each group underlined by a brace and labeled 1 through 8.

Scale Pattern 2*
Scale in Thirds*
Interval Study
Triads of the F Scale
Chord Study 1*
Chord Study 2 - articulations:

Technical Exercises in the Key of C

Major Scale

Two staves of musical notation for the Major Scale in C major. The top staff begins with a whole rest followed by an eighth-note pattern: C, D, E, F, G, A, B. The bottom staff begins with a half note followed by an eighth-note pattern: C, D, E, F, G, A, B.

Natural Minor

Two staves of musical notation for the Natural Minor Scale in C minor. The top staff begins with a whole rest followed by an eighth-note pattern: C, D, E, F, G, A, B. The bottom staff begins with a half note followed by an eighth-note pattern: C, D, E, F, G, A, B.

Harmonic Minor

Two staves of musical notation for the Harmonic Minor Scale in C minor. The top staff begins with a whole rest followed by an eighth-note pattern: C, D, E, F, G, A, B. The bottom staff begins with a half note followed by an eighth-note pattern: C, D, E, F, G, A, B.

Melodic Minor

Two staves of musical notation for the Melodic Minor Scale in C minor. The top staff begins with a whole rest followed by an eighth-note pattern: C, D, E, F, G, A, B. The bottom staff begins with a half note followed by an eighth-note pattern: C, D, E, F, G, A, B.

Mini-Scale & Tonic Arpeggio

Two staves of musical notation. The top staff shows a descending eighth-note scale from C to C. The bottom staff shows an ascending eighth-note arpeggio from C to C.

*Scale Pattern 1 *articulations:* | | | | | | | | |

Two staves of musical notation. The top staff consists of a series of eighth-note patterns. The bottom staff consists of a series of eighth-note patterns.

*Scale Pattern 2**

Musical notation for Scale Pattern 2*. The top staff shows a continuous sequence of eighth-note pairs. The bottom staff shows a sequence of eighth-note pairs followed by quarter notes.

*Scale in Thirds**

Musical notation for Scale in Thirds*. The top staff shows a sequence of eighth-note pairs. The bottom staff shows a sequence of eighth-note pairs followed by quarter notes.

Interval Study

Musical notation for Interval Study. The top staff shows a sequence of eighth-note pairs. The bottom staff shows a sequence of eighth-note pairs followed by quarter notes.

Triads of the C Scale

Musical notation for Triads of the C Scale. The top staff shows a sequence of eighth-note pairs. The bottom staff shows a sequence of eighth-note pairs followed by quarter notes. Roman numerals I through vii° are placed under specific notes to identify the chords.

*Chord Study 1**

Musical notation for Chord Study 1*. The top staff shows a sequence of eighth-note pairs. The bottom staff shows a sequence of eighth-note pairs followed by quarter notes.

Chord Study 2 - articulations: 1 2 3 4

Musical notation for Chord Study 2 - articulations. The top staff shows a sequence of eighth-note pairs. The bottom staff shows a sequence of eighth-note pairs followed by quarter notes. Articulation marks (numbered 1 through 4) are placed above specific notes.

Technical Exercises in the Key of G

Major Scale

Musical staff for the Major Scale in G major. The key signature is one sharp (F#). The scale consists of eight notes: G, A, B, C, D, E, F#, G.

Natural Minor

Musical staff for the Natural Minor Scale in G minor. The key signature is one flat (B-flat). The scale consists of eight notes: G, A, B-flat, C, D, E, F, G.

Harmonic Minor

Musical staff for the Harmonic Minor Scale in G minor. The key signature is one flat (B-flat). The scale consists of eight notes: G, A, B-flat, C, D, E, F#, G.

Melodic Minor

Musical staff for the Melodic Minor Scale in G minor. The key signature is one flat (B-flat). The scale consists of eight notes: G, A, B-flat, C, D, E, F#, G.

Mini-Scale & Tonic Arpeggio

Musical staff showing a mini-scale and a tonic arpeggio. The first measure shows a descending eighth-note scale from G to G. The second measure shows an ascending eighth-note scale from G to G. The third measure shows a descending eighth-note scale from G to G. The fourth measure shows an ascending eighth-note scale from G to G. The fifth measure shows a descending eighth-note scale from G to G. The sixth measure shows an ascending eighth-note scale from G to G. The seventh measure shows a descending eighth-note scale from G to G. The eighth measure shows an ascending eighth-note scale from G to G.

*Scale Pattern 1 *articulations:* 1 2 3 4 5 6 7 8

Musical staff showing a continuation of the scale pattern. The first measure shows a descending eighth-note scale from G to G. The second measure shows an ascending eighth-note scale from G to G. The third measure shows a descending eighth-note scale from G to G. The fourth measure shows an ascending eighth-note scale from G to G. The fifth measure shows a descending eighth-note scale from G to G. The sixth measure shows an ascending eighth-note scale from G to G. The seventh measure shows a descending eighth-note scale from G to G. The eighth measure shows an ascending eighth-note scale from G to G.

*Scale Pattern 2**

Two staves of musical notation in G major, common time. The top staff consists of two measures of eighth-note patterns. The bottom staff consists of two measures of sixteenth-note patterns.

*Scale in Thirds**

Two staves of musical notation in G major, common time. The top staff consists of two measures of eighth-note patterns in thirds. The bottom staff consists of two measures of sixteenth-note patterns in thirds.

Interval Study

One staff of musical notation in G major, common time. It features a continuous eighth-note interval study pattern.

Triads of the G Scale

One staff of musical notation in G major, common time. It shows triads of the G scale with Roman numerals I through vii° below them.

*Chord Study 1**

Two staves of musical notation in G major, common time. The top staff consists of two measures of eighth-note chords numbered 1-6. The bottom staff consists of two measures of sixteenth-note chords.

Chord Study 2 - articulations:

Two staves of musical notation in G major, common time. The top staff consists of two measures of eighth-note chords with '3' above each note. The bottom staff consists of two measures of sixteenth-note chords with '3' above each note and '1-5' below it.

Technical Exercises in the Key of D

Major Scale

Two staves of musical notation for the Major Scale in D major. The top staff starts with a C note and the bottom staff starts with an A note. Both staves show a sequence of eighth-note patterns followed by a sixteenth-note pattern.

Natural Minor

Two staves of musical notation for the Natural Minor Scale in D minor. The top staff starts with a C note and the bottom staff starts with an A note. Both staves show a sequence of eighth-note patterns followed by a sixteenth-note pattern.

Harmonic Minor

Two staves of musical notation for the Harmonic Minor Scale in D minor. The top staff starts with a C note and the bottom staff starts with an A note. Both staves show a sequence of eighth-note patterns followed by a sixteenth-note pattern.

Melodic Minor

Two staves of musical notation for the Melodic Minor Scale in D minor. The top staff starts with a C note and the bottom staff starts with an A note. Both staves show a sequence of eighth-note patterns followed by a sixteenth-note pattern.

Mini-Scale & Tonic Arpeggio

Two staves of musical notation. The top staff shows a descending eighth-note scale from C down to D. The bottom staff shows an ascending eighth-note scale from D up to C. Both staves include slurs and grace notes.

Scale in Thirds - articulations: 1 2 3 4 5 6 7 8

Two staves of musical notation. The top staff shows a scale in thirds starting on C, with eighth-note patterns and slurs. The bottom staff shows a scale in thirds starting on D, with eighth-note patterns and slurs.

Technical Exercises in the Key of A

Major Scale

Musical notation for the Major Scale in A major (one sharp). The scale consists of eight notes: A, B, C#, D, E, F#, G, and A. The first measure starts on A and ends on B. The second measure starts on C# and ends on D. The third measure starts on E and ends on F#. The fourth measure starts on G and ends on A.

Natural Minor

Musical notation for the Natural Minor Scale in A minor (no sharps or flats). The scale consists of eight notes: A, B, C, D, E, F, G, and A. The first measure starts on A and ends on B. The second measure starts on C and ends on D. The third measure starts on E and ends on F. The fourth measure starts on G and ends on A.

Harmonic Minor

Musical notation for the Harmonic Minor Scale in A minor (one sharp). The scale consists of eight notes: A, B, C, D, E, F#, G#, and A. The first measure starts on A and ends on B. The second measure starts on C and ends on D. The third measure starts on E and ends on F#. The fourth measure starts on G# and ends on A.

Melodic Minor

Musical notation for the Melodic Minor Scale in A minor (one sharp). The scale consists of eight notes: A, B, C#, D, E, F#, G#, and A. The first measure starts on A and ends on B. The second measure starts on C# and ends on D. The third measure starts on E and ends on F#. The fourth measure starts on G# and ends on A.

Mini-Scale & Tonic Arpeggio

Musical notation for a Mini-Scale and Tonic Arpeggio in A major (one sharp). The top staff shows a descending eighth-note scale from A down to A. The bottom staff shows an ascending eighth-note arpeggio from A to A, consisting of notes A, C#, E, and G#.

Scale in Thirds - articulations: 1 2 3 4 5 6 7 8

Musical notation for a Scale in Thirds exercise in A major (one sharp). The exercise consists of two staves. The top staff shows a scale in thirds starting on A, with eighth-note groups separated by vertical bar lines. The bottom staff shows a similar pattern starting on C#.

Technical Exercises in the Key of E

Major Scale

Two staves of musical notation for the Major Scale in E major (3 sharps). The first staff shows a descending scale from C to E, with notes on the 5th, 4th, 3rd, 2nd, and 1st strings. The second staff shows an ascending scale from E to C, with notes on the 1st, 2nd, 3rd, 4th, and 5th strings.

Natural Minor

Two staves of musical notation for the Natural Minor Scale in E minor (1 sharp). The first staff shows a descending scale from C to E, with notes on the 5th, 4th, 3rd, 2nd, and 1st strings. The second staff shows an ascending scale from E to C, with notes on the 1st, 2nd, 3rd, 4th, and 5th strings.

Harmonic Minor

Two staves of musical notation for the Harmonic Minor Scale in E minor (1 sharp). The first staff shows a descending scale from C to E, with notes on the 5th, 4th, 3rd, 2nd, and 1st strings. The second staff shows an ascending scale from E to C, with notes on the 1st, 2nd, 3rd, 4th, and 5th strings.

Melodic Minor

Two staves of musical notation for the Melodic Minor Scale in E minor (1 sharp). The first staff shows a descending scale from C to E, with notes on the 5th, 4th, 3rd, 2nd, and 1st strings. The second staff shows an ascending scale from E to C, with notes on the 1st, 2nd, 3rd, 4th, and 5th strings.

Mini-Scale & Tonic Arpeggio

Two staves of musical notation for a Mini-Scale and Tonic Arpeggio in E major (3 sharps). The first staff shows a descending scale from C to E, with notes on the 5th, 4th, 3rd, 2nd, and 1st strings. The second staff shows an ascending scale from E to C, with notes on the 1st, 2nd, 3rd, 4th, and 5th strings.

Scale in Thirds - articulations: []

Two staves of musical notation for a Scale in Thirds exercise in E major (3 sharps). The first staff shows a descending scale from C to E, with notes on the 5th, 4th, 3rd, 2nd, and 1st strings. The second staff shows an ascending scale from E to C, with notes on the 1st, 2nd, 3rd, 4th, and 5th strings.

Technical Exercises in the Key of B

Major Scale

Natural Minor

Harmonic Minor

Melodic Minor

Mini-Scale & Tonic Arpeggio

Scale in Thirds - articulations: | | | | | | | | |

Technical Exercises in the Key of G \flat

Major Scale

B-flat minor (G-flat major) Major Scale

Natural Minor

B-flat minor (G-flat major) Natural Minor

Harmonic Minor

B-flat minor (G-flat major) Harmonic Minor

Melodic Minor

B-flat minor (G-flat major) Melodic Minor

Mini-Scale & Tonic Arpeggio

B-flat minor (G-flat major) Mini-Scale & Tonic Arpeggio

Scale Pattern 1 *articulations:

B-flat minor (G-flat major) Scale Pattern 1

Scale Pattern 2*
Scale in Thirds*
Interval Study
Triads of the Gb Scale
Chord Study 1*
Chord Study 2 - articulations:

Technical Exercises in the Key of D \flat

Major Scale

Natural Minor

Harmonic Minor

Melodic Minor

Mini-Scale & Tonic Arpeggio

(also practice 8vb)

Scale Pattern 1 *articulations:

(also practice 8vb)

*Scale Pattern 2**

(also practice 8vb)

*Scale in Thirds**
Interval Study
Triads of the D♭ Scale

I ii iii IV V vi vii^⁰

*Chord Study 1**

Chord Study 2 - articulations:

Technical Exercises in the Key of A♭

Major Scale

Natural Minor

Harmonic Minor

Melodic Minor

Mini-Scale & Tonic Arpeggio

*Scale Pattern 1 *articulations:*

*Scale Pattern 2**

*Scale in Thirds**

Interval Study

Triads of the Ab Scale

*Chord Study 1**

Chord Study 2 - articulations: 1 2 3 4 | 1 2 3 4 | 1 2 3 4 | 1 2 3 4 |

Technical Exercises in the Key of E_b

Major Scale

Natural Minor

Harmonic Minor

Melodic Minor

Mini-Scale & Tonic Arpeggio

*Scale Pattern 1 *articulations:* 1 2 3 4 5 6 7 8

*Scale Pattern 2**
*Scale in Thirds**
Interval Study
Triads of the Eb Scale
*Chord Study 1**
Chord Study 2 - articulations:

Chorales & Tuning Exercises in B \flat

Interval Tuning

1 Intervals from tonic (major 3rd, perfect 4th, perfect 5th)

A musical staff in bass clef (F) and common time. It shows six notes labeled 1 through 6. Note 1 is C, note 2 is D, note 3 is E, note 4 is F, note 5 is G, and note 6 is A. Each note has a small wavy line underneath it.

2 Intervals of a major 3rd on the I-IV-V-I chord progression

A musical staff in bass clef (F) and common time. It shows seven notes labeled 1 through 7. Note 1 is C, note 4 is F, note 5 is G, note 6 is A, and note 7 is B. Each note has a small wavy line underneath it. Below the staff, Roman numerals I, IV, V, and I are written under notes 1, 4, 5, and 6 respectively.

3 Intervals of a perfect 5th on the I-IV-V-I chord progression

A musical staff in bass clef (F) and common time. It shows seven notes labeled 1 through 7. Note 1 is C, note 4 is F, note 5 is G, note 6 is A, and note 7 is B. Each note has a small wavy line underneath it. Below the staff, Roman numerals I, IV, V, and I are written under notes 1, 4, 5, and 6 respectively.

Chord Tuning

This section contains two staves: 'Cues' (top) and 'Euph' (bottom). The 'Cues' staff uses a bass clef and the 'Euph' staff uses a bass clef. The score is divided into four sections corresponding to chords I, IV, V, and V7. In each section, specific notes are highlighted with numbers and letters indicating tuning intervals: (3rd), (5th), (root), and (7th). The 'Cues' staff has a 'Cues' label at the top left and an 'Euph' label at the bottom left. The 'Euph' staff has an 'Euph' label at the top left.

Chorale 1 (full band)

A musical staff in bass clef (F) and common time. It shows eight notes labeled 1 through 8. The notes are: 1 (C), 2 (D), 3 (E), 4 (F), 5 (G), 6 (A), 7 (B), and 8 (C). The first four notes have dynamic markings 'mf'. There is a fermata (a curved line over a note) over note 4.

Chorale 2 (full band) —

Euph

1 2 3 4
mf

5 6 7 8
ritard

Chorale Melody on Chester —

Subdivision

Chorale Melody

Bopped

1 2 3 4 (cadence)
mf

5 6 7 8 (cadence)

Chester Chorale (full band) —

Euph

1 2 3 4
mf

5 6 7 8
mf

9 10 11 12
mp

13 14 15 16
mf *f*

Chorales & Tuning Exercises in F

Interval Tuning

1 Intervals from tonic (major 3rd, perfect 4th, perfect 5th)

A musical staff in bass clef (F) with a key signature of one flat. It shows a sequence of notes: F (1), G (2), A (3), B (4), F (5), and G (6). Each note is connected by a horizontal line with a small bracket underneath, indicating the interval from the previous note.

2 Intervals of a major 3rd on the I-IV-V-I chord progression

A musical staff in bass clef (F) with a key signature of one flat. It shows a sequence of notes corresponding to the chords I, IV, V, and I: F (1), G (2), A (3), B (4), F (5), G (6), and A (7). Each note is connected by a horizontal line with a small bracket underneath, indicating the interval of a major 3rd from the previous note.

3 Intervals of a perfect 5th on the I-IV-V-I chord progression

A musical staff in bass clef (F) with a key signature of one flat. It shows a sequence of notes corresponding to the chords I, IV, V, and I: F (1), C (2), F (3), C (4), F (5), C (6), and F (7). Each note is connected by a horizontal line with a small bracket underneath, indicating the interval of a perfect 5th from the previous note.

Chord Tuning

The image shows two staves side-by-side. The top staff is labeled "Cues" and the bottom staff is labeled "Euph". Both staves are in bass clef (F) with a key signature of one flat. The progression is I, IV, V, and I. The "Cues" staff has tuning cues above the notes: (5th) over the first note of I, (3rd) over the second note of I, (root) over the first note of IV, (5th) over the second note of IV, (3rd) over the first note of V, and (root) over the second note of V. The "Euph" staff has tuning cues below the notes: (root) over the first note of I, (5th) over the second note of I, (3rd) over the first note of IV, (5th) over the second note of IV, (root) over the first note of V, and (3rd) over the second note of V.

Chorale 3 (full band)

A musical staff in bass clef (F) with a key signature of one flat. The staff is marked "mf". It shows a sequence of notes numbered 1 through 11. Note 1 starts on F, note 2 on G, note 3 on A, note 4 on B, note 5 on C, note 6 on D, note 7 on E, note 8 on F, note 9 on G, note 10 on A, and note 11 on B.

Chorale 4 (full band) —

Euph

mf

Chorale Melody on Bach 95 —

Subdivision

Chorale Melody

Bopped

(cadence)

Bach 95 (full band) —

Euph

mf

Chorales & Tuning Exercises in Eb

Interval Tuning

1 Intervals from tonic (major 3rd, perfect 4th, perfect 5th)

2 Intervals of a major 3rd on the I-IV-V-I chord progression

3 Intervals of a perfect 5th on the I-IV-V-I chord progression

Chord Tuning

Chorale 5 (full band)

Chorale 6 (full band) —

Euph

1 2 3 4

5 6 7 8

mf

Chorale Melody on America —

Subdivision

Chorale Melody

Bopped

1 2 3

mf

4 5 6 (cadence)

America (full band) —

Euph

1 2 3 4 5

mf

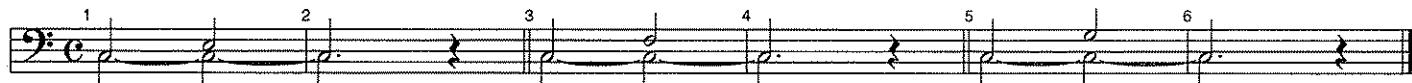
6 7 8 9 10

11 12 13 14

Chorale & Tuning Exercises in C

Interval Tuning

1 Intervals from tonic (major 3rd, perfect 4th, perfect 5th)



Chord Tuning

I IV

V V7 I

Air (full band)

Chorale & Tuning Exercises in c minor

Interval Tuning

1 Intervals from tonic (minor 3rd, perfect 4th, perfect 5th)



Chord Tuning

The score shows the following chords and intervals:

- Cues (Top Staves):**
 - Chord I: Root (C), 3rd (E), 5th (G)
 - Chord IV: Root (F), 3rd (A), 5th (C), 7th (E)
 - Chord V7: Root (G), 3rd (B), 5th (D), 7th (F)
- Euph (Bottom Staves):**
 - Chord i: Root (C), 3rd (E), 5th (G)
 - Chord iv: Root (F), 3rd (A), 5th (C)
 - Chord V: Root (G), 3rd (B), 5th (D)

Greensleeves (full band)

The score shows a melodic line for Euph in G major, 8th time. The measures are numbered 1 through 16.

Chorale & Tuning Exercises in G

Interval Tuning

1 Intervals from tonic (major 3rd, perfect 4th, perfect 5th)

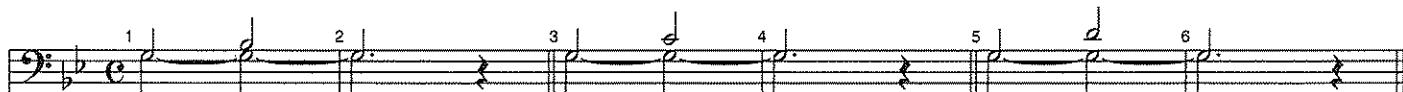
Chord Tuning

Pavane (full band)

Chorale & Tuning Exercises in g minor

Interval Tuning

1 Intervals from tonic (minor 3rd, perfect 4th, perfect 5th)



Chord Tuning

The Queene's Alman (full band)

Chorale & Tuning Exercises in A♭

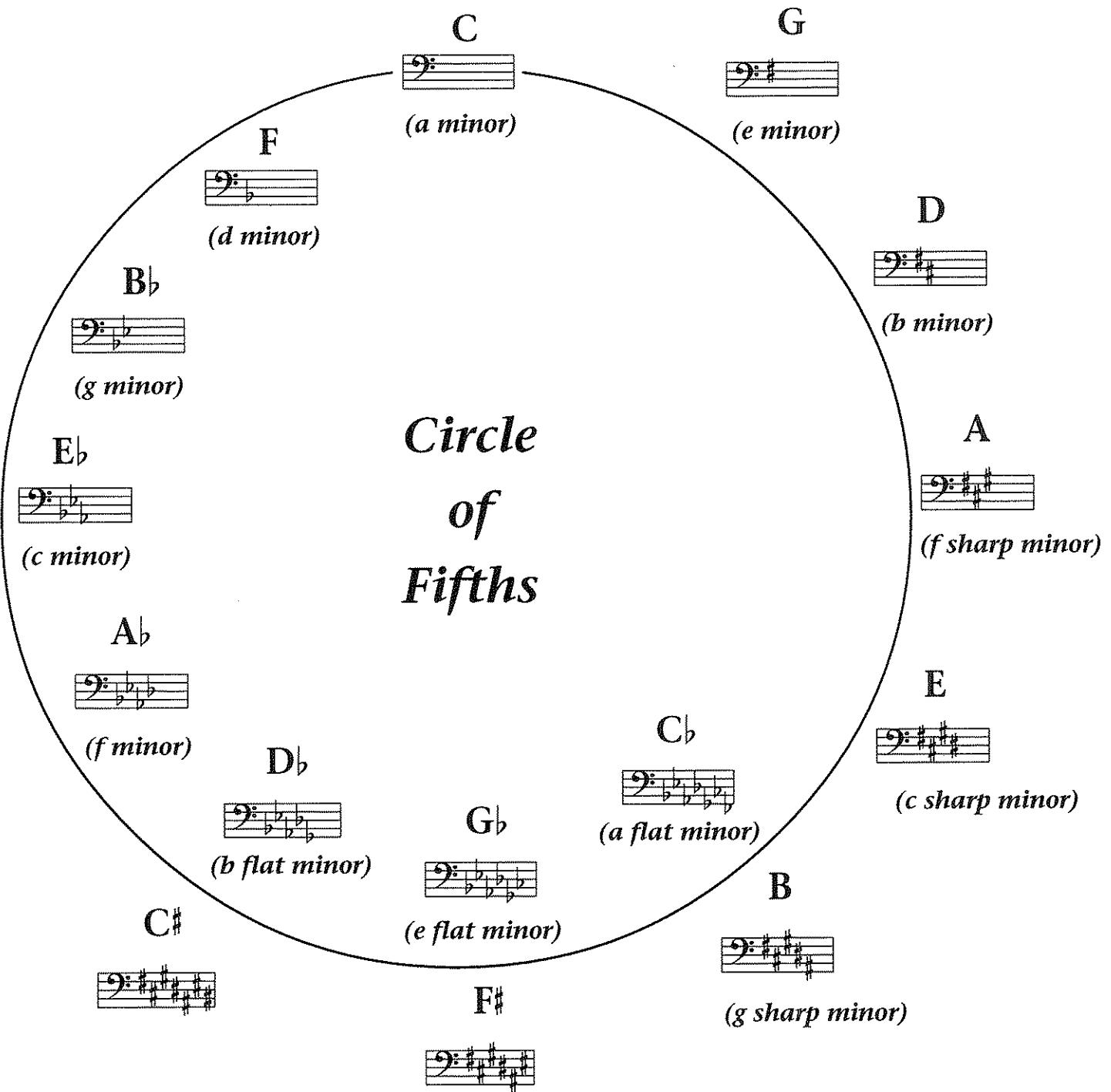
Interval Tuning

1 Intervals from tonic (major 3rd, perfect 4th, perfect 5th)

Chord Tuning

All Through the Night (full band)

Appendix



One Octave Scales & Arpeggios

In All Twelve Major Key Signatures

B_b 

F 

C 

G 

D 

A 

E 

B 

F# 

G_b

A musical staff for bass clef, G-flat major (three flats). It consists of five horizontal lines and four spaces. The key signature is indicated by three flat symbols (B-flat, D-flat, F-flat) at the beginning of the staff.

D_b

A musical staff for bass clef, D-flat major (two flats). It consists of five horizontal lines and four spaces. The key signature is indicated by two flat symbols (B-flat, E-flat) at the beginning of the staff.

A_b

A musical staff for bass clef, A-flat major (one flat). It consists of five horizontal lines and four spaces. The key signature is indicated by one flat symbol (C-flat) at the beginning of the staff.

E_b

A musical staff for bass clef, E-flat major (four flats). It consists of five horizontal lines and four spaces. The key signature is indicated by four flat symbols (B-flat, D-flat, G-flat, C-flat) at the beginning of the staff.

Chromatic Exercises

The first half of a chromatic exercise for bass clef. It consists of eight measures. Measure 1 starts with a half note followed by a whole note. Measures 2 through 8 show a continuous sequence of eighth notes moving chromatically up the scale. Measure 8 ends with a half note followed by a whole note.

The second half of a chromatic exercise for bass clef. It consists of nine measures. Measures 9 through 16 show a continuous sequence of eighth notes moving chromatically up the scale. Measure 17 ends with a half note followed by a whole note.

B_b Chromatic Scale

The first half of a chromatic scale for bass clef, B-flat major (one flat). It consists of four measures. Measure 1 starts with a half note followed by a whole note. Measures 2 through 4 show a continuous sequence of eighth notes moving chromatically up the scale. Measure 4 ends with a half note followed by a whole note.

F Chromatic Scale

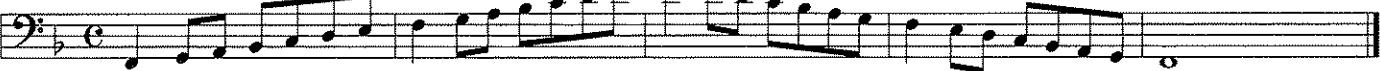
The second half of a chromatic scale for bass clef, B-flat major (one flat). It consists of four measures. Measures 1 through 3 show a continuous sequence of eighth notes moving chromatically up the scale. Measure 4 ends with a half note followed by a whole note.

A continuation of the chromatic scale for bass clef, B-flat major (one flat). It consists of three measures. Measures 5 and 6 show a continuous sequence of eighth notes moving chromatically up the scale. Measure 7 ends with a half note followed by a whole note.

Full Range Scales

In All Twelve Major Key Signatures

B_b 

F 

C 



G 

D 

A 

E 

B

A continuous chromatic scale on a bass clef staff in B major (two sharps). The notes are eighth notes, starting at B and ending at B.

F#

A continuous chromatic scale on a bass clef staff in F# major (one sharp). The notes are eighth notes, starting at F# and ending at F#.

Gb

A continuous chromatic scale on a bass clef staff in Gb major (one flat). The notes are eighth notes, starting at Gb and ending at Gb.

Db

A continuous chromatic scale on a bass clef staff in Db major (two flats). The notes are eighth notes, starting at Db and ending at Db.

Ab

A continuous chromatic scale on a bass clef staff in Ab major (one flat). The notes are eighth notes, starting at Ab and ending at Ab.

Eb

A continuous chromatic scale on a bass clef staff in Eb major (two flats). The notes are eighth notes, starting at Eb and ending at Eb.

Full Range Chromatic - Euphoniums Only

1

A musical staff for euphoniums in C major. It shows a chromatic scale from C to C, divided into three measures. Measure 1 starts at C and goes up to G. Measure 2 starts at G and goes up to D. Measure 3 starts at D and goes up to E.

2

4

5

6

A continuation of the chromatic scale from staff 1. Measure 4 starts at E and goes down to A. Measure 5 starts at A and goes down to D. Measure 6 starts at D and goes down to C.

7

8

A continuation of the chromatic scale from staff 2. Measure 7 starts at C and goes up to G. Measure 8 starts at G and goes up to D.

Chromatic Scales

C

Musical score for C major showing two staves of eighth-note patterns. The top staff uses a bass clef and the bottom staff uses a treble clef. Measures are grouped by vertical bar lines and numbered 1 through 5 above them.

D \flat

Musical score for D-flat major showing two staves of eighth-note patterns. The top staff uses a bass clef and the bottom staff uses a treble clef. Measures are grouped by vertical bar lines and numbered 1 through 5 above them.

D

Musical score for D major showing two staves of eighth-note patterns. The top staff uses a bass clef and the bottom staff uses a treble clef. Measures are grouped by vertical bar lines and numbered 1 through 5 above them.

E \flat

Musical score for E-flat major showing two staves of eighth-note patterns. The top staff uses a bass clef and the bottom staff uses a treble clef. Measures are grouped by vertical bar lines and numbered 1 through 5 above them.

E

Musical score for E major showing two staves of eighth-note patterns. The top staff uses a bass clef and the bottom staff uses a treble clef. Measures are grouped by vertical bar lines and numbered 1 through 5 above them.

F

Musical score for F major showing two staves of eighth-note patterns. The top staff uses a bass clef and the bottom staff uses a treble clef. Measures are grouped by vertical bar lines and numbered 1 through 5 above them.

G_b

Musical score for G_b key signature, featuring two staves of music. The top staff is in common time (C) and the bottom staff is in 2/4 time. Both staves use bass clef. The music consists of eighth-note patterns with various accidentals (sharps, flats, naturals) and grace notes. Measures are separated by vertical bar lines.

G

Musical score for G key signature, featuring two staves of music. The top staff is in common time (C) and the bottom staff is in 2/4 time. Both staves use bass clef. The music consists of eighth-note patterns with various accidentals (sharps, flats, naturals) and grace notes. Measures are separated by vertical bar lines.

A_b

Musical score for A_b key signature, featuring two staves of music. The top staff is in common time (C) and the bottom staff is in 2/4 time. Both staves use bass clef. The music consists of eighth-note patterns with various accidentals (sharps, flats, naturals) and grace notes. Measures are separated by vertical bar lines.

A

Musical score for A key signature, featuring two staves of music. The top staff is in common time (C) and the bottom staff is in 2/4 time. Both staves use bass clef. The music consists of eighth-note patterns with various accidentals (sharps, flats, naturals) and grace notes. Measures are separated by vertical bar lines.

B_b

Musical score for B_b key signature, featuring two staves of music. The top staff is in common time (C) and the bottom staff is in 2/4 time. Both staves use bass clef. The music consists of eighth-note patterns with various accidentals (sharps, flats, naturals) and grace notes. Measures are separated by vertical bar lines.

B

Musical score for B key signature, featuring two staves of music. The top staff is in common time (C) and the bottom staff is in 2/4 time. Both staves use bass clef. The music consists of eighth-note patterns with various accidentals (sharps, flats, naturals) and grace notes. Measures are separated by vertical bar lines.

Major Arpeggios & Inversions

The image displays 12 musical staves, each representing a different major key. The keys are listed vertically on the left side of each staff: B_b, F, C, G, D, A, E, B, F[#], G_b, D_b, A_b, and E_b. Each staff begins with a bass clef and a key signature corresponding to the listed key. The first note on each staff is 'C'. Following 'C', the staves show various patterns of eighth-note arpeggios and inversions, primarily in a descending sequence of notes.