

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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Flute Fingering Chart

Low B foot joint only.

B	C	C# Db	D	D# Eb	E

F	F# Gb	G	G# Ab	A	A# Bb
					 or or

B	C	C# Db	D	D# Eb	E	F
		 or (lowers pitch)				

F# Gb	G	G# Ab	A	A# Bb	B	C
				 or or 		

C# Db	D	D# Eb	E	F	F# Gb	G
			 or (lowers pitch)	 or (lowers pitch)	 or (lowers pitch)	

G# Ab	A	A# Bb	B	C	C# Db	D
 or (lowers pitch)					 or 	

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

Concert F Around The Band

Each instrument will play concert F in their middle register. The flute is a concert pitch instrument, there is no transposition for flute.

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.

Once the instruments have been placed into groups, write the name of the instrument(s) in the appropriate box below (every box may not be used).

This method of grouping will be used to practice different musical concepts. Various styles, rhythms, dynamics, articulations and chords may be drilled in this manner.

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.

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).

Musical notation for quarter-note exercises. The first staff shows four connected quarter notes (tenuto). The second staff shows four quarter notes in "lifted" style with tapered endings. The third staff shows four quarter notes in "lifted and short" style (staccato). Below each staff is a corresponding bar diagram with shaded areas representing the sound envelope of each note.

Eighth-notes in connected style.

Eighth-notes in lifted and short style.

Musical notation for eighth-note exercises. The first staff shows eighth notes in connected style. The second staff shows eighth notes in lifted and short style. Below each staff is a corresponding bar diagram with shaded areas representing the sound envelope of each note.

Eighth-note triplets in connected style.

Eighth-note triplets in a detached style (bounced).

Musical notation for eighth-note triplet exercises. The first staff shows eighth-note triplets in connected style. The second staff shows eighth-note triplets in a detached style (bounced). Below each staff is a corresponding bar diagram with shaded areas representing the sound envelope of each note.

Sixteenth-notes in a connected style.

Musical notation for sixteenth-note exercises. The first staff shows sixteenth notes in a connected style. Below the staff is a corresponding bar diagram with shaded areas representing the sound envelope of each note.

Articulation Exercise on Concert F

Musical notation for the articulation exercise on Concert F. The exercise consists of five staves of music, numbered 1 through 20. The first staff (measures 1-5) contains quarter notes. The second staff (measures 6-10) contains quarter notes with a whole note ending at measure 10. The third staff (measures 11-14) contains quarter notes with a whole note ending at measure 14. The fourth staff (measures 15-18) contains eighth-note triplets with a whole note ending at measure 18. The fifth staff (measures 19-20) contains sixteenth notes. The exercise concludes with a double bar line at measure 20.

Long Tones

Concert F Descending

1

First staff of musical notation for Concert F Descending, measures 1 through 7. The notes are: G4, F4, E4, D4, C4, B3, A3, G3.

Second staff of musical notation for Concert F Descending, measures 8 through 14. The notes are: F3, E3, D3, C3, B2, A2, G2.

2

Third staff of musical notation for Concert F Descending, measures 1 through 4. The notes are: G4, F4, E4, D4.

Long Tone 1

1a

First staff of musical notation for Long Tone 1a, measures 1 through 7. The notes are: G4, F4, E4, D4, C4, B3, A3.

Second staff of musical notation for Long Tone 1a, measures 8 through 14. The notes are: G3, F3, E3, D3, C3, B2, A2.

1b

First staff of musical notation for Long Tone 1b, measures 1 through 7. The notes are: G4, F4, E4, D4, C4, B3, A3.

Second staff of musical notation for Long Tone 1b, measures 8 through 14. The notes are: G3, F3, E3, D3, C3, B2, A2.

1c

First staff of musical notation for Long Tone 1c, measures 1 through 5. The notes are: G4, F4, E4, D4, C4.

Second staff of musical notation for Long Tone 1c, measures 6 through 10. The notes are: B3, A3, G3, F3, E3.

1d

First staff of musical notation for Long Tone 1d, measures 1 through 6. The notes are: G4, F4, E4, D4, C4, B3.

Second staff of musical notation for Long Tone 1d, measures 7 through 12. The notes are: A3, G3, F3, E3, D3, C3.

Long Tone 2

Musical notation for Long Tone 2, consisting of four staves of music. The first staff contains measures 1-7, the second staff contains measures 8-14, the third staff contains measures 15-21, and the fourth staff contains measures 22-26. The music features various intervals and rests, with some notes beamed together.

Long Tone 3

3a Intervals of a minor 2nd

Intervals of a major 2nd

Musical notation for Long Tone 3a, measures 1-8. Measures 1-4 show intervals of a minor 2nd (e.g., C-B, D-C, E-D, F-E). Measures 5-8 show intervals of a major 2nd (e.g., G-A, B-A, C-B, D-C).

Intervals of a minor 3rd

Intervals of a major 3rd

Musical notation for Long Tone 3a, measures 9-16. Measures 9-12 show intervals of a minor 3rd (e.g., C-B, D-C, E-D, F-E). Measures 13-16 show intervals of a major 3rd (e.g., G-A, B-A, C-B, D-C).

Intervals of a perfect 4th

Intervals of an augmented 4th

Musical notation for Long Tone 3a, measures 17-24. Measures 17-20 show intervals of a perfect 4th (e.g., C-F, D-G, E-A, F-B). Measures 21-24 show intervals of an augmented 4th (e.g., G-C, A-D, B-E, C-F).

Intervals of a perfect 5th

Musical notation for Long Tone 3a, measures 25-28. Measures 25-28 show intervals of a perfect 5th (e.g., C-G, D-A, E-B, F-C).

3b Intervals of a minor 2nd

Intervals of a major 2nd

Intervals of a minor 3rd

Musical notation for Long Tone 3b, measures 1-6. Measures 1-2 show intervals of a minor 2nd (e.g., C-B, D-C). Measures 3-4 show intervals of a major 2nd (e.g., G-A, B-A). Measures 5-6 show intervals of a minor 3rd (e.g., C-B, D-C).

Intervals of a major 3rd

Intervals of a perfect 4th

Intervals of an augmented 4th

Musical notation for Long Tone 3b, measures 7-12. Measures 7-8 show intervals of a major 3rd (e.g., G-A, B-A). Measures 9-10 show intervals of a perfect 4th (e.g., C-F, D-G). Measures 11-12 show intervals of an augmented 4th (e.g., G-C, A-D).

Warm-Up Set 1

Option 1 (unison "lip slur" with brass)

Option 2 (unison harmonic study with brass)

○ indicate a note produced as a harmonic
◆ indicate the fingered note

Options 3, 4, & 5 (technical patterns with brass lip slurs)

Articulation Patterns:

Warm-Up Set 2

Option 1 (unison "lip slur" with brass)

Musical notation for Option 1, consisting of three staves of music. The first staff contains measures 1-5, the second staff contains measures 7-10, and the third staff contains measures 11-14. The music features a sequence of eighth notes with slurs and breath marks, characteristic of a lip slur exercise.

Option 2 (unison harmonic study with brass)

Musical notation for Option 2, consisting of three staves of music. The first staff contains measures 1-5, the second staff contains measures 7-10, and the third staff contains measures 11-14. The music features a sequence of eighth notes with slurs and breath marks, characteristic of a harmonic study exercise.

Options 3, 4, & 5 (technical patterns with brass lip slurs)

Articulation Patterns:

Musical notation for Options 3, 4, & 5, consisting of four staves of music. The first staff contains measures 1-4, the second staff contains measures 5-8, the third staff contains measures 9-12, and the fourth staff contains measures 13-14. The music features a sequence of eighth notes with slurs and breath marks, characteristic of technical patterns with lip slurs.

Warm-Up Set 3

Option 1 (unison "lip slur" with brass)

Option 2 (unison harmonic study with brass)

Options 3, 4, & 5 (technical patterns with brass lip slurs)

Articulation Patterns: 

Warm-Up Set 4

Option 1 (unison "lip slur" with brass)

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

Option 2 (unison harmonic study with brass)

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

Options 3, 4, & 5 (technical patterns with brass lip slurs)

Articulation Patterns:

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

Technical Exercises in the Key of B \flat

Major Scale

Natural Minor

Harmonic Minor

Melodic Minor

Mini-Scale & Tonic Arpeggio

Scale Pattern 1* articulations:

Scale Pattern 2*

Musical notation for Scale Pattern 2* in B-flat major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with eighth-note patterns, and the lower staff provides a bass line with eighth-note accompaniment. The key signature has two flats (B-flat and E-flat).

Scale in Thirds*

Musical notation for Scale in Thirds* in B-flat major, 4/4 time. The piece consists of two staves. The upper staff plays a scale in thirds, and the lower staff plays a scale in single notes. The key signature has two flats (B-flat and E-flat).

Interval Study

Musical notation for Interval Study in B-flat major, 4/4 time. The piece consists of a single staff with a melodic line featuring various intervals between notes.

Triads of the B \flat Scale

Musical notation for Triads of the B \flat Scale in B-flat major, 4/4 time. The piece consists of a single staff showing seven triads labeled I through vii^o. The key signature has two flats (B-flat and E-flat).

Chord Study 1*

Musical notation for Chord Study 1* in B-flat major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with six measures, each starting with a different chord. The lower staff provides a bass line with eighth-note accompaniment. The key signature has two flats (B-flat and E-flat).

Chord Study 2 - articulations:

Musical notation for Chord Study 2 - articulations in B-flat major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with six measures, each starting with a different chord and marked with articulation numbers (1-6). The lower staff provides a bass line with eighth-note accompaniment. The key signature has two flats (B-flat and E-flat).

Technical Exercises in the Key of F

Major Scale

Musical notation for the Major Scale exercise in F major, consisting of two staves with ascending and descending lines.

Natural Minor

Musical notation for the Natural Minor scale exercise in F minor, consisting of two staves with ascending and descending lines.

Harmonic Minor

Musical notation for the Harmonic Minor scale exercise in F minor, consisting of two staves with ascending and descending lines.

Melodic Minor

Musical notation for the Melodic Minor scale exercise in F minor, consisting of two staves with ascending and descending lines.

Mini-Scale & Tonic Arpeggio

Musical notation for the Mini-Scale & Tonic Arpeggio exercise, featuring a melodic line with a slur and an arpeggiated line below it. Includes the instruction "(also practice 8va w/cue note)".

Scale Pattern 1 *articulations:

Musical notation for Scale Pattern 1, showing a melodic line with various articulations (accents, slurs, and slurs with accents) over a bass line.

Scale Pattern 2*

Musical notation for Scale Pattern 2* in F major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with eighth-note patterns, and the lower staff provides a bass line with eighth-note accompaniment.

Scale in Thirds*

Musical notation for Scale in Thirds* in F major, 4/4 time. The upper staff plays a scale in thirds, while the lower staff plays a scale in single notes.

Interval Study

Musical notation for Interval Study in F major, 4/4 time. The piece consists of a single staff with a melodic line featuring various intervals.

Triads of the F Scale

Musical notation for Triads of the F Scale in F major, 4/4 time. The piece consists of a single staff showing seven triads labeled I through vii°. Each triad is played in a specific rhythmic pattern.

Chord Study 1*

Musical notation for Chord Study 1* in F major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with six numbered phrases, and the lower staff provides a bass line with eighth-note accompaniment.

Chord Study 2 - articulations:

Musical notation for Chord Study 2 - articulations in F major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with six numbered phrases, each containing triplets. The lower staff provides a bass line with eighth-note accompaniment.

Technical Exercises in the Key of C

Major Scale

Natural Minor

Harmonic Minor

Melodic Minor

Mini-Scale & Tonic Arpeggio

(also practice Bbb)

Scale Pattern 1 *articulations:

Scale Pattern 2*

Musical notation for Scale Pattern 2* in C major, 4/4 time. The right hand plays a sixteenth-note scale pattern: C4-D4-E4-F4-G4-A4-B4-C5, followed by a descending pattern: C5-B4-A4-G4-F4-E4-D4-C4. The left hand plays a steady eighth-note accompaniment: C4-D4-E4-F4-G4-A4-B4-C4.

Scale in Thirds*

Musical notation for Scale in Thirds* in C major, 4/4 time. The right hand plays a scale in thirds: C4-D4-E4-F4-G4-A4-B4-C5, followed by a descending pattern: C5-B4-A4-G4-F4-E4-D4-C4. The left hand plays a steady eighth-note accompaniment: C4-D4-E4-F4-G4-A4-B4-C4. A note below the first measure reads: (also practice Bva w/↓ option).

Interval Study

Musical notation for Interval Study in C major, 4/4 time. The right hand plays a sequence of intervals: C4-D4, D4-E4, E4-F4, F4-G4, G4-A4, A4-B4, B4-C5, followed by descending intervals: C5-B4, B4-A4, A4-G4, G4-F4, F4-E4, E4-D4, D4-C4.

Triads of the C Scale

Musical notation for Triads of the C Scale in C major, 4/4 time. The right hand plays triads: C4-E4-G4, D4-F4-A4, E4-G4-B4, F4-A4-C5, G4-B4-D5, A4-C5-E5, B4-D5-F5, C5-E5-G5. The left hand plays a steady eighth-note accompaniment: C4-D4-E4-F4-G4-A4-B4-C4. Roman numerals I through vii° are written below the triads.

Chord Study 1*

Musical notation for Chord Study 1* in C major, 4/4 time. The right hand plays sixteenth-note patterns for chords: 1. C4-E4-G4, 2. D4-F4-A4, 3. E4-G4-B4, 4. F4-A4-C5, 5. G4-B4-D5, 6. A4-C5-E5. The left hand plays a steady eighth-note accompaniment: C4-D4-E4-F4-G4-A4-B4-C4.

Chord Study 2 - articulations:

Musical notation for Chord Study 2 - articulations in C major, 4/4 time. The right hand plays sixteenth-note patterns with articulations (accents) over chords: 1. C4-E4-G4, 2. D4-F4-A4, 3. E4-G4-B4, 4. F4-A4-C5, 5. G4-B4-D5. The left hand plays a steady eighth-note accompaniment: C4-D4-E4-F4-G4-A4-B4-C4.

Technical Exercises in the Key of G

Major Scale

Natural Minor

Harmonic Minor

Melodic Minor

Mini-Scale & Tonic Arpeggio

Scale Pattern 1 *articulations: 

Scale Pattern 2*

Musical notation for Scale Pattern 2* in G major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with eighth-note patterns, and the lower staff provides a harmonic accompaniment with eighth-note chords.

Scale in Thirds*

Musical notation for Scale in Thirds* in G major, 4/4 time. The upper staff plays a scale in thirds, while the lower staff plays a scale in single notes.

Interval Study

Musical notation for Interval Study in G major, 4/4 time. The single staff contains a sequence of eighth-note intervals, including thirds, fourths, and fifths.

Triads of the G Scale

Musical notation for Triads of the G Scale in G major, 4/4 time. The single staff shows seven triads labeled I through vii^o, each with a chord symbol above it.

Chord Study 1*

Musical notation for Chord Study 1* in G major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with eighth-note patterns, and the lower staff provides a harmonic accompaniment with eighth-note chords.

Chord Study 2 - articulations:

Musical notation for Chord Study 2 - articulations in G major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with eighth-note patterns and triplets, and the lower staff provides a harmonic accompaniment with eighth-note chords. The piece is numbered 1 through 5.

Technical Exercises in the Key of D

Major Scale

Natural Minor

Harmonic Minor

Melodic Minor

Mini-Scale & Tonic Arpeggio

(also practice 8va w/cue note)

Scale in Thirds - articulations:

Technical Exercises in the Key of A

Major Scale

Natural Minor

Harmonic Minor

Melodic Minor

Mini-Scale & Tonic Arpeggio

Scale in Thirds - articulations:

Technical Exercises in the Key of E

Major Scale

Natural Minor

Harmonic Minor

Melodic Minor

Mini-Scale & Tonic Arpeggio

(also practice Bva w/cue note)

Scale in Thirds - articulations:

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

Two staves of music in G \flat major, 4/4 time. The upper staff contains a melodic line with a half rest in the first measure, followed by an ascending eighth-note scale, a descending eighth-note scale, and a whole note G \flat in the final measure. The lower staff contains a bass line with an ascending eighth-note scale, a descending eighth-note scale, and a whole note G \flat in the final measure.

Natural Minor

Two staves of music in G \flat major, 4/4 time. The upper staff contains a melodic line with a half rest in the first measure, followed by an ascending eighth-note scale, a descending eighth-note scale, and a whole note G \flat in the final measure. The lower staff contains a bass line with an ascending eighth-note scale, a descending eighth-note scale, and a whole note G \flat in the final measure.

Harmonic Minor

Two staves of music in G \flat major, 4/4 time. The upper staff contains a melodic line with a half rest in the first measure, followed by an ascending eighth-note scale, a descending eighth-note scale with a raised seventh degree (F \sharp), and a whole note G \flat in the final measure. The lower staff contains a bass line with an ascending eighth-note scale, a descending eighth-note scale with a raised seventh degree (F \sharp), and a whole note G \flat in the final measure.

Melodic Minor

Two staves of music in G \flat major, 4/4 time. The upper staff contains a melodic line with a half rest in the first measure, followed by an ascending eighth-note scale, a descending eighth-note scale with a raised seventh degree (F \sharp), and a whole note G \flat in the final measure. The lower staff contains a bass line with an ascending eighth-note scale, a descending eighth-note scale with a raised seventh degree (F \sharp), and a whole note G \flat in the final measure.

Mini-Scale & Tonic Arpeggio

Two staves of music in G \flat major, 4/4 time. The upper staff contains a melodic line with a half rest in the first measure, followed by an ascending eighth-note scale, a descending eighth-note scale, and a whole note G \flat in the final measure. The lower staff contains a bass line with an ascending eighth-note scale, a descending eighth-note scale, and a whole note G \flat in the final measure.

Scale Pattern 1 *articulations:

Two staves of music in G \flat major, 4/4 time. The upper staff contains a melodic line with a half rest in the first measure, followed by an ascending eighth-note scale, a descending eighth-note scale, and a whole note G \flat in the final measure. The lower staff contains a bass line with an ascending eighth-note scale, a descending eighth-note scale, and a whole note G \flat in the final measure.

*Scale Pattern 2**

Musical notation for Scale Pattern 2* in G-flat major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with eighth-note patterns, and the lower staff provides a bass line with eighth-note accompaniment.

*Scale in Thirds**

Musical notation for Scale in Thirds* in G-flat major, 4/4 time. The upper staff plays a scale in thirds, while the lower staff plays a scale in eighth notes.

Interval Study

Musical notation for Interval Study in G-flat major, 4/4 time. The piece consists of a single staff with a sequence of intervals between notes.

Triads of the G \flat Scale

Musical notation for Triads of the G \flat Scale in G-flat major, 4/4 time. The piece consists of a single staff showing seven triads labeled I through vii $^{\circ}$.

I II III IV V vi vii $^{\circ}$

*Chord Study 1**

Musical notation for Chord Study 1* in G-flat major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with sixteenth-note patterns, and the lower staff provides a bass line with eighth-note accompaniment.

Chord Study 2 - articulations:

Musical notation for Chord Study 2 - articulations in G-flat major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with eighth-note patterns and articulation marks (accents), and the lower staff provides a bass line with eighth-note accompaniment.

Technical Exercises in the Key of D \flat

Major Scale

Musical notation for the Major Scale in D \flat major, consisting of two staves. The first staff shows the ascending scale, and the second staff shows the descending scale. The key signature has two flats (B \flat and E \flat).

Natural Minor

Musical notation for the Natural Minor Scale in D \flat major, consisting of two staves. The first staff shows the ascending scale, and the second staff shows the descending scale. The key signature has two flats (B \flat and E \flat).

Harmonic Minor

Musical notation for the Harmonic Minor Scale in D \flat major, consisting of two staves. The first staff shows the ascending scale, and the second staff shows the descending scale. The key signature has two flats (B \flat and E \flat).

Melodic Minor

Musical notation for the Melodic Minor Scale in D \flat major, consisting of two staves. The first staff shows the ascending scale, and the second staff shows the descending scale. The key signature has two flats (B \flat and E \flat).

Mini-Scale & Tonic Arpeggio

Musical notation for Mini-Scale & Tonic Arpeggio in D \flat major, consisting of two staves. The first staff shows the ascending scale with a slur over the first four notes and a note below it. The second staff shows the descending scale. The key signature has two flats (B \flat and E \flat).

(also practice 8va w/cue note)

Scale Pattern 1 *articulations:

Musical notation for Scale Pattern 1 in D \flat major, consisting of two staves. The first staff shows the ascending scale with articulation marks above the notes. The second staff shows the descending scale. The key signature has two flats (B \flat and E \flat).

(also practice 8va)

Scale Pattern 2*

Musical notation for Scale Pattern 2* in D-flat major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with eighth-note patterns, and the lower staff provides a bass accompaniment. A note in the upper staff is annotated with "(also practice 8va)".

Scale in Thirds*

Musical notation for Scale in Thirds* in D-flat major, 4/4 time. The piece consists of two staves. The upper staff plays a scale in thirds, while the lower staff plays a scale in single notes.

Interval Study

Musical notation for Interval Study in D-flat major, 4/4 time. The piece consists of a single staff with a melodic line featuring various intervals.

Triads of the D \flat Scale

Musical notation for Triads of the D \flat Scale in D-flat major, 4/4 time. The piece consists of a single staff showing seven triads labeled I through vii^o.

Chord Study 1*

Musical notation for Chord Study 1* in D-flat major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with six numbered phrases (1-6), and the lower staff provides a bass accompaniment.

Chord Study 2 - articulations:

Musical notation for Chord Study 2 - articulations in D-flat major, 4/4 time. The piece consists of two staves. The upper staff features a melodic line with triplets and articulations, and the lower staff provides a bass accompaniment with numbered phrases (1-5).

Technical Exercises in the Key of Ab

Major Scale

Musical notation for the Major Scale exercise in Ab major. The exercise is written in 2/4 time and consists of two staves. The right staff contains the melody, and the left staff contains the accompaniment. The melody starts with a whole rest followed by an eighth rest, then an eighth note G, and continues with an ascending eighth-note scale: G, Ab, Bb, C, D, Eb, F, G. The accompaniment starts with a whole rest followed by an eighth rest, then an eighth note G, and continues with an ascending eighth-note scale: G, Ab, Bb, C, D, Eb, F, G. The exercise concludes with a whole note G in both staves.

Natural Minor

Musical notation for the Natural Minor scale exercise in Ab minor. The exercise is written in 2/4 time and consists of two staves. The right staff contains the melody, and the left staff contains the accompaniment. The melody starts with a whole rest followed by an eighth rest, then an eighth note G, and continues with an ascending eighth-note scale: G, Ab, Bb, C, D, Eb, F, G. The accompaniment starts with a whole rest followed by an eighth rest, then an eighth note G, and continues with an ascending eighth-note scale: G, Ab, Bb, C, D, Eb, F, G. The exercise concludes with a whole note G in both staves.

Harmonic Minor

Musical notation for the Harmonic Minor scale exercise in Ab minor. The exercise is written in 2/4 time and consists of two staves. The right staff contains the melody, and the left staff contains the accompaniment. The melody starts with a whole rest followed by an eighth rest, then an eighth note G, and continues with an ascending eighth-note scale: G, Ab, Bb, C, D, Eb, F, G. The accompaniment starts with a whole rest followed by an eighth rest, then an eighth note G, and continues with an ascending eighth-note scale: G, Ab, Bb, C, D, Eb, F, G. The exercise concludes with a whole note G in both staves.

Melodic Minor

Musical notation for the Melodic Minor scale exercise in Ab minor. The exercise is written in 2/4 time and consists of two staves. The right staff contains the melody, and the left staff contains the accompaniment. The melody starts with a whole rest followed by an eighth rest, then an eighth note G, and continues with an ascending eighth-note scale: G, Ab, Bb, C, D, Eb, F, G. The accompaniment starts with a whole rest followed by an eighth rest, then an eighth note G, and continues with an ascending eighth-note scale: G, Ab, Bb, C, D, Eb, F, G. The exercise concludes with a whole note G in both staves.

Mini-Scale & Tonic Arpeggio

Musical notation for the Mini-Scale & Tonic Arpeggio exercise in Ab major. The exercise is written in 2/4 time and consists of two staves. The right staff contains the melody, and the left staff contains the accompaniment. The melody starts with a whole rest followed by an eighth rest, then an eighth note G, and continues with an ascending eighth-note scale: G, Ab, Bb, C, D, Eb, F, G. The accompaniment starts with a whole rest followed by an eighth rest, then an eighth note G, and continues with an ascending eighth-note scale: G, Ab, Bb, C, D, Eb, F, G. The exercise concludes with a whole note G in both staves.

Scale Pattern 1 *articulations: $\overset{1}{\text{trill}}$ $\overset{2}{\text{trill}}$ $\overset{3}{\text{trill}}$ $\overset{4}{\text{trill}}$ $\overset{5}{\text{trill}}$ $\overset{6}{\text{trill}}$ $\overset{7}{\text{trill}}$ $\overset{8}{\text{trill}}$

Musical notation for the Scale Pattern 1 exercise in Ab major. The exercise is written in 2/4 time and consists of two staves. The right staff contains the melody, and the left staff contains the accompaniment. The melody starts with a whole rest followed by an eighth rest, then an eighth note G, and continues with an ascending eighth-note scale: G, Ab, Bb, C, D, Eb, F, G. The accompaniment starts with a whole rest followed by an eighth rest, then an eighth note G, and continues with an ascending eighth-note scale: G, Ab, Bb, C, D, Eb, F, G. The exercise concludes with a whole note G in both staves.

Technical Exercises in the Key of E \flat

Major Scale

Natural Minor

Harmonic Minor

Melodic Minor

Mini-Scale & Tonic Arpeggio

(also practice 8va w/cue note)

Scale Pattern 1 *articulations:

(also practice 8va)

Scale Pattern 2*

Scale in Thirds*

Interval Study

Triads of the E \flat 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)

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 1 (full band)

Chorale 2 (full band)

Fl 1/2

1 *mf*

2 3 4

5 *divisi* 6 *a2* 7 8 *ritard*

Chorale Melody on Chester

Subdivision

Chorale Melody *mf*

Bopped

1 2 3 4 (cadence)

5 6 7 8 (cadence)

Chester (full band)

Fl 1/2

1 *mf* 2 3 4

5 6 7 8

9 *mp* 10 11 12

13 *mf* 14 15 16 *f*

Chorales & Tuning Exercises in F

Interval Tuning

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

Musical notation for exercise 1. It consists of a single staff in treble clef with a key signature of one flat (F major). The melody starts on the tonic (F4) and includes intervals of a major 3rd (F4 to A4), a perfect 4th (F4 to Bb4), and a perfect 5th (F4 to C5). The notes are numbered 1 through 6.

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

Musical notation for exercise 2. It shows a four-measure progression of chords: I (F major), IV (Bb major), V (C major), and I (F major). The melody consists of eighth notes, with the interval of a major 3rd highlighted between the root and the third of each chord. The notes are numbered 1 through 7.

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

Musical notation for exercise 3. It shows a four-measure progression of chords: I (F major), IV (Bb major), V (C major), and I (F major). The melody consists of eighth notes, with the interval of a perfect 5th highlighted between the root and the fifth of each chord. The notes are numbered 1 through 7.

Chord Tuning

Musical notation for chord tuning exercise 1. It shows two staves: 'Cues' and 'Fl 1/2'. The progression is I, IV, V7, I. The notes are numbered 1 through 4. Labels indicate the (5th), (3rd), (root), and (5th) of the chords.

Musical notation for chord tuning exercise 2. It shows two staves: 'Cues' and 'Fl 1/2'. The progression is V, V7, I. The notes are numbered 5 through 7. Labels indicate the (root), (3rd), (7th), (5th), and (3rd) of the chords.

Chorale 3 (full band)

Musical notation for Chorale 3 (full band). It consists of two staves in treble clef with a key signature of one flat. The melody is marked *mf* and consists of 11 measures of eighth notes.

Chorale 4 (full band)

Fl 1/2 *mf*

Chorale Melody on Bach 95

Subdivision
Chorale Melody *mf*
Bopped

Bach 95 (full band)

Fl 1/2 *mf*

Chorales & Tuning Exercises in E \flat

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)

Fl 1/2 *mf*

1 *divisi* 2 *a2* 3 4 *divisi*

5 6 7 8

Chorale Melody on America

Subdivision

Chorale Melody *mf*

Bopped

(cadence)

America (full band)

Fl 1/2 *mf*

1 2 3 4 5

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

Air (full band)

Chorale & Tuning Exercises in c minor

Interval Tuning

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

Chord Tuning

Greensleeves (full band)

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 Ab

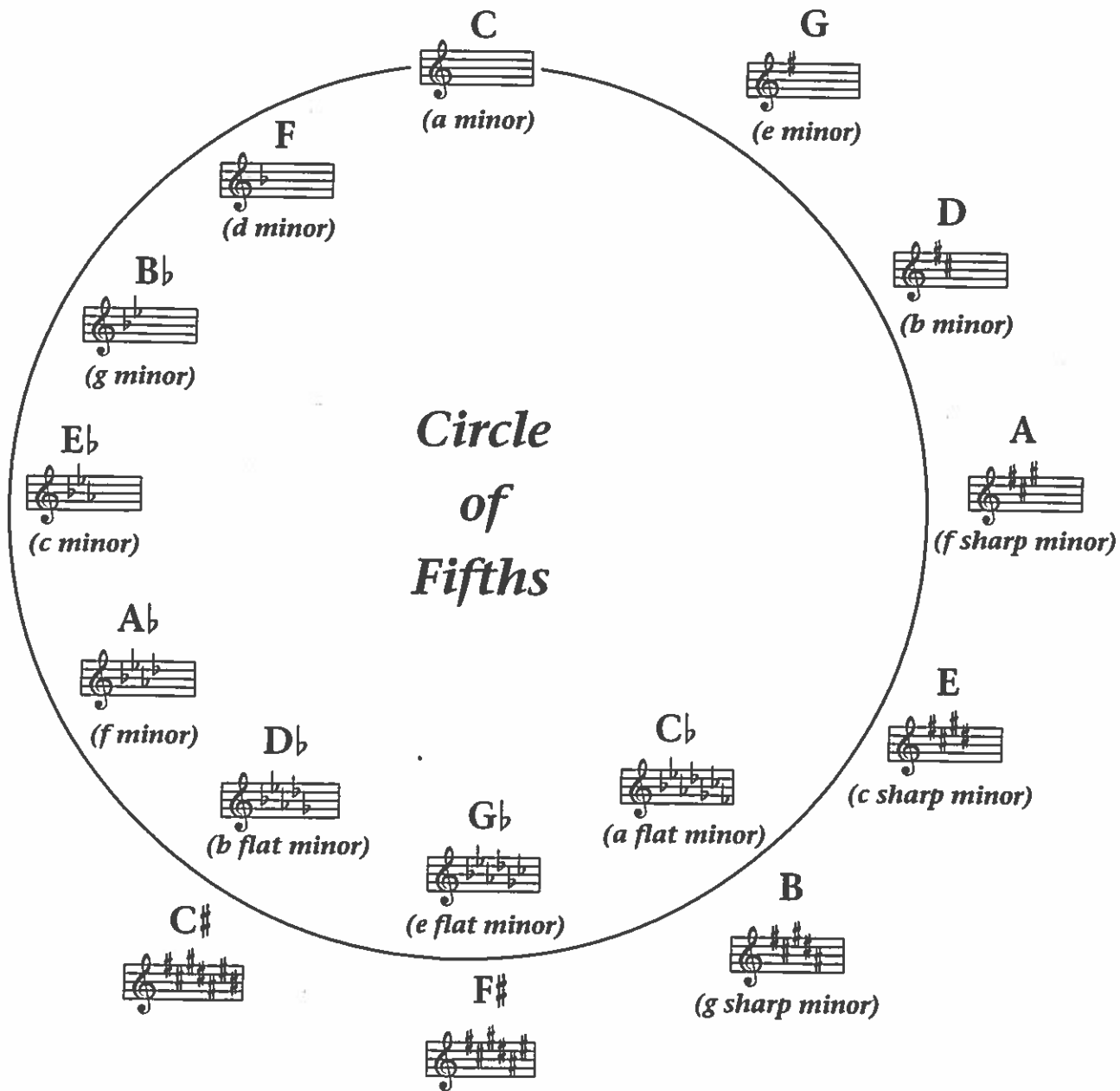
Interval Tuning

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

Bb 

F 

C 

G 

D 

A 

E 

B 

F# 

G \flat

A musical staff in G flat major (three flats) showing a scale exercise. The notes are G \flat , A \flat , B \flat , C, D, E \flat , F, G \flat . The exercise is written in a treble clef with a common time signature. It consists of two phrases: an ascending scale followed by a descending scale, each with a repeat sign at the end.

D \flat

A musical staff in D flat major (four flats) showing a scale exercise. The notes are D \flat , E \flat , F, G, A \flat , B \flat , C, D \flat . The exercise is written in a treble clef with a common time signature. It consists of two phrases: an ascending scale followed by a descending scale, each with a repeat sign at the end.

A \flat

A musical staff in A flat major (four flats) showing a scale exercise. The notes are A \flat , B \flat , C, D, E \flat , F, G, A \flat . The exercise is written in a treble clef with a common time signature. It consists of two phrases: an ascending scale followed by a descending scale, each with a repeat sign at the end.

E \flat

A musical staff in E flat major (three flats) showing a scale exercise. The notes are E \flat , F, G, A, B \flat , C, D, E \flat . The exercise is written in a treble clef with a common time signature. It consists of two phrases: an ascending scale followed by a descending scale, each with a repeat sign at the end.

Chromatic Exercises

A musical staff showing a chromatic exercise. The notes are: 1. B \flat , 2. B, 3. B \flat , 4. B, 5. B \flat , 6. B, 7. B \flat , 8. B. The exercise is written in a treble clef with a common time signature. It consists of two phrases: an ascending scale followed by a descending scale, each with a repeat sign at the end.

A musical staff showing a chromatic exercise. The notes are: 9. B \flat , 10. B, 11. B \flat , 12. B, 13. B \flat , 14. B, 15. B \flat , 16. B, 17. B. The exercise is written in a treble clef with a common time signature. It consists of two phrases: an ascending scale followed by a descending scale, each with a repeat sign at the end.

B \flat Chromatic Scale

A musical staff showing a B flat chromatic scale exercise. The notes are: 1. B \flat , 2. B, 3. B \flat , 4. B. The exercise is written in a treble clef with a common time signature. It consists of two phrases: an ascending scale followed by a descending scale, each with a repeat sign at the end.

F Chromatic Scale

A musical staff showing an F chromatic scale exercise. The notes are: 1. F, 2. F \sharp , 3. F, 4. F \sharp . The exercise is written in a treble clef with a common time signature. It consists of two phrases: an ascending scale followed by a descending scale, each with a repeat sign at the end.

A musical staff showing a chromatic exercise. The notes are: 5. B \flat , 6. B, 7. B \flat . The exercise is written in a treble clef with a common time signature. It consists of two phrases: an ascending scale followed by a descending scale, each with a repeat sign at the end.

Full Range Scales

In All Twelve Major Key Signatures

B \flat

F

C

G

D

A

E

B

For flutes with a B foot.

B

Two staves of musical notation for the B flute part. The first staff contains the main melodic line, and the second staff contains a lower register line. The key signature has three sharps (F#, C#, G#) and the time signature is common time (C).

E♭

One staff of musical notation for the E-flat flute part. The key signature has three sharps (F#, C#, G#) and the time signature is common time (C).

G♭

One staff of musical notation for the G-flat flute part. The key signature has three flats (Bb, Eb, Ab) and the time signature is common time (C).

C

One staff of musical notation for the C flute part. The key signature has three flats (Bb, Eb, Ab) and the time signature is common time (C).

B♭

One staff of musical notation for the B-flat flute part. The key signature has three flats (Bb, Eb, Ab) and the time signature is common time (C).

F

One staff of musical notation for the F flute part. The key signature has three flats (Bb, Eb, Ab) and the time signature is common time (C).

Full Range Chromatic - For Flutes Only

First staff of musical notation for the Full Range Chromatic exercise, measures 1 through 4. The key signature has three sharps (F#, C#, G#) and the time signature is common time (C). Measure numbers 1, 2, 3, and 4 are indicated below the staff.

Second staff of musical notation for the Full Range Chromatic exercise, measures 5 through 8. The key signature has three sharps (F#, C#, G#) and the time signature is common time (C). Measure numbers 5, 6, 7, and 8 are indicated below the staff.

Third staff of musical notation for the Full Range Chromatic exercise, measures 9 through 10. The key signature has three sharps (F#, C#, G#) and the time signature is common time (C). Measure numbers 9 and 10 are indicated below the staff.

Chromatic Scales



C

Two staves of music for C major. The upper staff contains the ascending chromatic scale (C4 to C5) and the lower staff contains the descending chromatic scale (C5 to C4). Both directions are divided into three measures, each containing a triplet of eighth notes.

(also practice Bva)

D \flat

Two staves of music for D-flat major. The upper staff contains the ascending chromatic scale (D4 to D5) and the lower staff contains the descending chromatic scale (D5 to D4). Both directions are divided into three measures, each containing a triplet of eighth notes.

D

Two staves of music for D major. The upper staff contains the ascending chromatic scale (D4 to D5) and the lower staff contains the descending chromatic scale (D5 to D4). Both directions are divided into three measures, each containing a triplet of eighth notes.

E \flat

Two staves of music for E-flat major. The upper staff contains the ascending chromatic scale (E4 to E5) and the lower staff contains the descending chromatic scale (E5 to E4). Both directions are divided into three measures, each containing a triplet of eighth notes.

E

Two staves of music for E major. The upper staff contains the ascending chromatic scale (E4 to E5) and the lower staff contains the descending chromatic scale (E5 to E4). Both directions are divided into three measures, each containing a triplet of eighth notes.

F

Two staves of music for F major. The upper staff contains the ascending chromatic scale (F4 to F5) and the lower staff contains the descending chromatic scale (F5 to F4). Both directions are divided into three measures, each containing a triplet of eighth notes.

F#

Musical score for *F#* major, measures 1-4. The score is written in treble and bass clefs with a common time signature. It features a complex melodic line with frequent triplets and chromatic alterations. The key signature has one sharp (F#).

G

Musical score for *G* major, measures 1-4. The score is written in treble and bass clefs with a common time signature. It features a complex melodic line with frequent triplets and chromatic alterations. The key signature has two sharps (F# and C#).

A#

Musical score for *A#* major, measures 1-4. The score is written in treble and bass clefs with a common time signature. It features a complex melodic line with frequent triplets and chromatic alterations. The key signature has three sharps (F#, C#, and G#).

A

Musical score for *A* major, measures 1-4. The score is written in treble and bass clefs with a common time signature. It features a complex melodic line with frequent triplets and chromatic alterations. The key signature has no sharps or flats.

Bb

Musical score for *Bb* major, measures 1-4. The score is written in treble and bass clefs with a common time signature. It features a complex melodic line with frequent triplets and chromatic alterations. The key signature has two flats (Bb and Eb).

B

Musical score for *B* major, measures 1-4. The score is written in treble and bass clefs with a common time signature. It features a complex melodic line with frequent triplets and chromatic alterations. The key signature has two sharps (F# and C#).

Major Arpeggios & Inversions

This musical score displays 12 major arpeggios and their inversions, each on a separate staff. The staves are labeled on the left as Bb, F, C, G, D, A, E, B, F#, Gb, Db, Ab, and Eb. Each staff begins with a treble clef, a common time signature (C), and a key signature. The notes are arranged in ascending and descending patterns, with some staves showing multiple inversions of the same chord. The piece concludes with a double bar line on each staff.

Scale and Chord Related Theory

A scale is a series of single notes which ascend or descend in a stepwise manner within the range of an octave. Because scales are arranged in a stepwise manner, the note names will always be in alphabetical order.

The notes within scales have a specific whole step/half step intervallic relationship with each other.

C major scale (half steps are between scale degrees 3 - 4 and 7 - 8).

Intervals: W W H W W W H

Scale Degrees: 1 2 3 4 5 6 7 8

Tonic Dominant Leading Tone

C natural minor scale (lower the 3rd, 6th, and 7th scale degrees a half step).

Intervals: W H W W H W W

Scale Degrees: 1 2 3 4 5 6 7 8

C harmonic minor scale (lower the 3rd and 6th scale degrees a half step).

Intervals: W H W W H W+H H

Scale Degrees: 1 2 3 4 5 6 7 8

C melodic minor scale (ascending lower the 3rd and descending lower the 7th, 6th, and 3rd scale degrees a half step).

Intervals: W H W W W W H W W H W W H W

Scale Degrees: 1 2 3 4 5 6 7 8 7 6 5 4 3 2 1

Augmented & Diminished Intervals from C

Augmented 4th (tritone)

Diminished 5th (tritone)

Augmented 5th

Intervals of the C major scale:

Major 2nd Major 3rd Perfect 4th Perfect 5th Major 6th Major 7th Perfect Octave

Minor Intervals from C

minor 2nd

minor 3rd

minor 6th

minor 7th

C major triad (three note chord) in root position and inversions.

Root Position First Inversion Second Inversion

From Bottom: root-third-fifth From Bottom: third-fifth-root From Bottom: fifth-root-third

Basic chord types constructed from C:

Major Minor (lower third) Diminished (lower third & fifth)

Augmented (raise fifth) Sus 4 (fourth replaces third)

Essential Vocabulary:

Interval - the distance between two notes

Half Step - the closest interval between two notes

Whole Step - an interval of two half steps

Third - the distance of two adjacent lines or two adjacent spaces

Scale Degree - a note's classification according to its position in the scale

Tonic - the first note of a scale, the "key-note" from which the scale takes its name

Dominant - the fifth scale degree, chords built on this note are "dominant" and normally resolve to the tonic

Leading Tone - the seventh scale degree, it is one half step below tonic and its tendency is to "lead" or rise to the tonic