
CLARINET FUNDAMENTALS

A Workbook for Developing
Clarinet Technique



School of Music

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A Workbook for Developing Clarinet Technique

By Joshua Gardner

The purpose of this workbook is to present the performance fundamentals necessary to develop satisfactory technique on the clarinet. The exercises include long tones, scales, arpeggios, thirds, and various single and multiple articulation exercises. With proper instruction, they will help you develop adequate air control, correct and agile finger motion, proper hand position, flexible intonation, and articulation accuracy and speed. By learning these fundamentals and committing them to muscle memory, you will be able to make music more efficiently and with fewer limitations. All of the exercises are presented in two octaves. You should expand them to three octaves gradually as you become comfortable with the upper register. Fingerings are provided for basic patterns (major/minor scales, arpeggios, and thirds) and the third octaves. Blank fingering diagrams are provided at the end of this workbook for recording custom fingerings.

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Intonation Guide for Long Tones

Being able to play in-tune with a tuner does not necessarily equate to being able to play in-tune within an ensemble. Certain pitch adjustments need to be made when playing in ensembles. Using a tuner provides the opportunity to learn the general tuning tendencies of our instruments and how to adjust to those tendencies. Once we know our instrument's tendencies, we can better predict how to manipulate a given note to be in-tune within a performance context. Below is a table indicating the pitch changes necessary to play a given interval in-tune (for Just Intonation). In addition to playing Long Tones with a tuner, play them with a drone to practice adjusting to these various intervals. Try to eliminate the "beats" between the two tones. Listen carefully for a third tone – the difference tone (also known as the resultant tone, combination tone, or Tartini tone), which is defined by the frequency difference between you and the drone. For nearly every interval above the drone pitch, some adjustment will be required to be "in tune."

To lower the pitch, it may be necessary to close tone holes partially or completely, depending on how much adjustment is required. To raise the pitch, try to avoid using excessive embouchure pressure – this will affect the sound detrimentally. A better option is to open tone holes to raise the pitch. Experimentation will yield the best results with your particular setup.

Pitch adjustments required for Just Intonation

Interval	Ratio	Adjustment (cents)
Unison	1:1	0.00
Minor 2 nd	16:15	+11.73
Major 2 nd	9:8	+3.91
Minor 3 rd	6:5	+15.64
Major 3 rd	5:4	-13.69
Perfect 4 th	4:3	-1.96
Tritone (septimal)	7:5	-17.48
Perfect 5 th	3:2	+1.96
Minor 6 th	8:5	+13.69
Major 6 th	5:3	-15.64
Minor 7 th (septimal)	7:4	-31.17
Major 7 th	15:8	-11.73
Octave	2:1	0.00

Long Tones

This musical score is designed for saxophone players to practice long tones. It consists of seven staves of music, each featuring a series of notes connected by a slur. The notes are: G4, A4, B4, C5, D5, E5, F5, G5. The notes are marked with various accidentals: G4 (natural), A4 (sharp), B4 (sharp), C5 (natural), D5 (sharp), E5 (natural), F5 (sharp), G5 (natural). The notes are placed on the staff lines as follows: G4 on the first space, A4 on the first line, B4 on the second space, C5 on the second line, D5 on the third space, E5 on the third line, F5 on the fourth space, and G5 on the fourth line. The notes are marked with a fermata. Below the notes, there are resonance fingerings for each note, which are diagrams showing the placement of fingers on the keys. The fingerings are: G4 (1, 2, 3), A4 (1, 2, 3), B4 (1, 2, 3), C5 (1, 2, 3), D5 (1, 2, 3), E5 (1, 2, 3), F5 (1, 2, 3), and G5 (1, 2, 3). The text "Resonance Fingerings" is written below the first staff. The page number "2" is located at the bottom center.

Major & Minor Scales

C major



L R R L

The C major scale is shown on a treble clef staff in common time. The notes are C, D, E, F, G, A, B, A, G, F, E, D, C. The first four notes (C, D, E, F) are marked with 'L' and the last four notes (A, B, A, G) are marked with 'R'. The final two notes (F, E) are marked with 'R' and 'L' respectively.

A natural minor



L R R L

The A natural minor scale is shown on a treble clef staff in common time. The notes are A, B, C, D, E, F, G, F, E, D, C, B, A. The first four notes (A, B, C, D) are marked with 'L' and the last four notes (E, F, G, F) are marked with 'R'. The final two notes (E, D) are marked with 'R' and 'L' respectively.

A harmonic minor



L R R L

The A harmonic minor scale is shown on a treble clef staff in common time. The notes are A, B, C, D, E, F, G# (sharped), F, E, D, C, B, A. The first four notes (A, B, C, D) are marked with 'L' and the last four notes (E, F, G#, F) are marked with 'R'. The final two notes (E, D) are marked with 'R' and 'L' respectively.

A melodic minor



L R R L

The A melodic minor scale is shown on a treble clef staff in common time. The notes are A, B, C, D, E, F# (sharped), G# (sharped), F, E, D, C, B, A. The first four notes (A, B, C, D) are marked with 'L' and the last four notes (E, F#, G#, F) are marked with 'R'. The final two notes (E, D) are marked with 'R' and 'L' respectively.

F major



R R R R

The F major scale is shown on a treble clef staff in common time with a one-flat key signature. The notes are F, G, A, Bb (flat), C, D, E, D, C, Bb, A, G, F. The first four notes (F, G, A, Bb) are marked with 'R' and the last four notes (C, D, E, D) are marked with 'R'. The final two notes (C, Bb) are marked with 'R' and 'R' respectively.

D natural minor



R R R R

The D natural minor scale is shown on a treble clef staff in common time with a two-flat key signature. The notes are D, E, F, G, A, Bb (flat), C, Bb, A, G, F, E, D. The first four notes (D, E, F, G) are marked with 'R' and the last four notes (A, Bb, C, Bb) are marked with 'R'. The final two notes (A, G) are marked with 'R' and 'R' respectively.

D harmonic minor



R R R R

The D harmonic minor scale is shown on a treble clef staff in common time with a two-flat key signature. The notes are D, E, F, G, A, Bb (flat), C# (sharped), Bb, A, G, F, E, D. The first four notes (D, E, F, G) are marked with 'R' and the last four notes (A, Bb, C#, Bb) are marked with 'R'. The final two notes (A, G) are marked with 'R' and 'R' respectively.

D melodic minor



L R R R

The D melodic minor scale is shown on a treble clef staff in common time with a two-flat key signature. The notes are D, E, F, G, A, Bb (flat), C# (sharped), Bb, A, G, F, E, D. The first four notes (D, E, F, G) are marked with 'L' and the last four notes (A, Bb, C#, Bb) are marked with 'R'. The final two notes (A, G) are marked with 'R' and 'R' respectively.

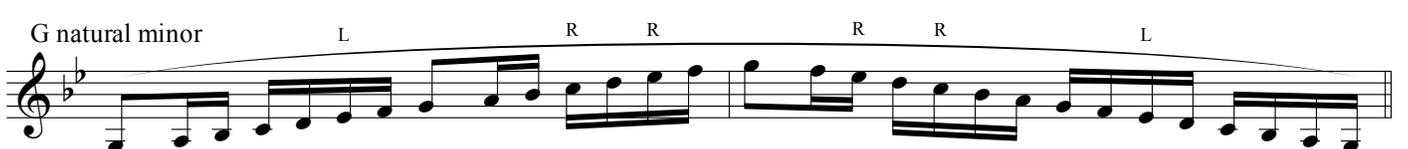
Bb major



L R R L R R L

The Bb major scale is shown on a treble clef staff in common time with a two-flat key signature. The notes are Bb, C, D, Eb (flat), F, G, Ab (flat), G, F, Eb, D, C, Bb. The first four notes (Bb, C, D, Eb) are marked with 'L' and the last four notes (F, G, Ab, G) are marked with 'R'. The final two notes (F, Eb) are marked with 'R' and 'R' respectively.

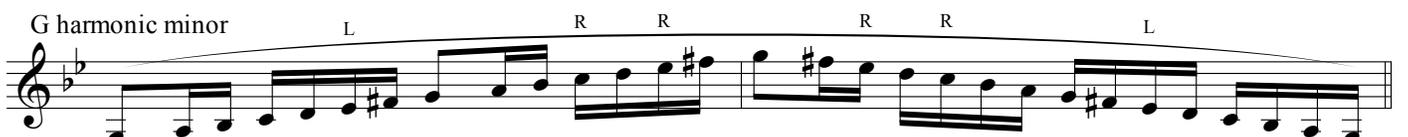
G natural minor



L R R R L

The G natural minor scale is shown on a treble clef staff in common time with a one-flat key signature. The notes are G, A, Bb (flat), C, D, Eb (flat), F, F, E, D, C, Bb, G. The first four notes (G, A, Bb, C) are marked with 'L' and the last four notes (D, Eb, F, F) are marked with 'R'. The final two notes (D, C) are marked with 'R' and 'L' respectively.

G harmonic minor



L R R R L

The G harmonic minor scale is shown on a treble clef staff in common time with a one-flat key signature. The notes are G, A, Bb (flat), C, D, Eb (flat), F# (sharped), F, E, D, C, Bb, G. The first four notes (G, A, Bb, C) are marked with 'L' and the last four notes (D, Eb, F#, F) are marked with 'R'. The final two notes (D, C) are marked with 'R' and 'L' respectively.

G melodic minor



R R R L

The G melodic minor scale is shown on a treble clef staff in common time with a one-flat key signature. The notes are G, A, Bb (flat), C, D, Eb (flat), F# (sharped), F, E, D, C, Bb, G. The first four notes (G, A, Bb, C) are marked with 'R' and the last four notes (D, Eb, F#, F) are marked with 'R'. The final two notes (D, C) are marked with 'R' and 'L' respectively.

Eb major



Handwritten musical notation for the Eb major scale. The staff shows a sequence of notes: Eb, F, G, Ab, Bb, C, D, Eb. Fingerings are indicated by 'R' (Right hand) and 'L' (Left hand) above the notes.

C natural minor



Handwritten musical notation for the C natural minor scale. The staff shows a sequence of notes: C, D, Eb, F, G, Ab, Bb, C. Fingerings are indicated by 'L' and 'R' above the notes.

C harmonic minor



Handwritten musical notation for the C harmonic minor scale. The staff shows a sequence of notes: C, D, Eb, F, G, Ab, Bb, C. Fingerings are indicated by 'L' and 'R' above the notes.

C melodic minor



Handwritten musical notation for the C melodic minor scale. The staff shows a sequence of notes: C, D, Eb, F, G, Ab, Bb, C. Fingerings are indicated by 'L' and 'R' above the notes.

Ab major



Handwritten musical notation for the Ab major scale. The staff shows a sequence of notes: Ab, Bb, C, D, Eb, F, G, Ab. Fingerings are indicated by 'R' and 'L' above the notes.

F natural minor



Handwritten musical notation for the F natural minor scale. The staff shows a sequence of notes: F, G, Ab, Bb, C, D, Eb, F. Fingerings are indicated by 'R' and 'L' above the notes.

F harmonic minor



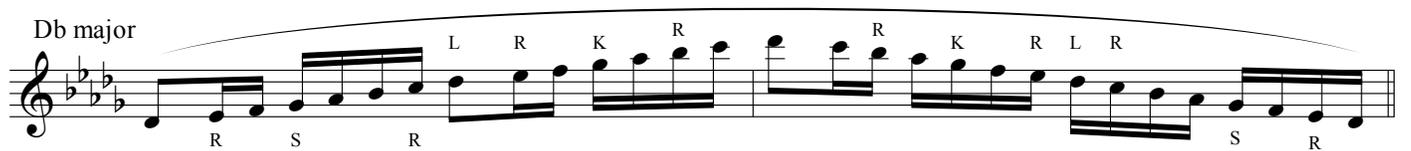
Handwritten musical notation for the F harmonic minor scale. The staff shows a sequence of notes: F, G, Ab, Bb, C, D, Eb, F. Fingerings are indicated by 'R' and 'L' above the notes.

F melodic minor



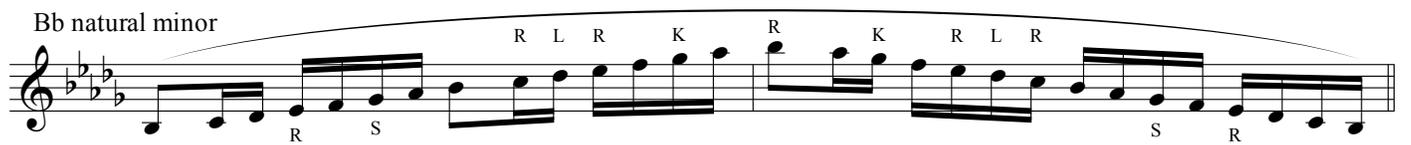
Handwritten musical notation for the F melodic minor scale. The staff shows a sequence of notes: F, G, Ab, Bb, C, D, Eb, F. Fingerings are indicated by 'R' and 'L' above the notes.

Db major



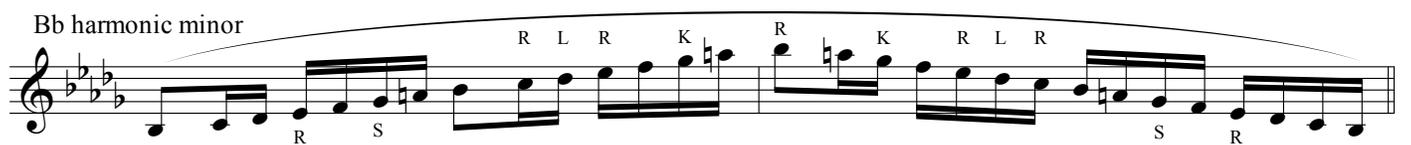
Handwritten musical notation for the Db major scale. The staff shows a sequence of notes: Db, Eb, F, G, Ab, Bb, C, Db. Fingerings are indicated by 'R', 'S', 'L', 'R', 'K', 'R', 'L', 'R' above the notes.

Bb natural minor



Handwritten musical notation for the Bb natural minor scale. The staff shows a sequence of notes: Bb, C, D, Eb, F, G, Ab, Bb. Fingerings are indicated by 'R', 'S', 'L', 'R', 'K', 'R', 'L', 'R' above the notes.

Bb harmonic minor



Handwritten musical notation for the Bb harmonic minor scale. The staff shows a sequence of notes: Bb, C, D, Eb, F, G, Ab, Bb. Fingerings are indicated by 'R', 'S', 'L', 'R', 'K', 'R', 'L', 'R' above the notes.

Bb melodic minor



Handwritten musical notation for the Bb melodic minor scale. The staff shows a sequence of notes: Bb, C, D, Eb, F, G, Ab, Bb. Fingerings are indicated by 'R', 'L', 'R', 'K', 'R', 'L', 'R' above the notes.

Gb major L R K R S R L R K R L R S R K R L

Musical notation for the Gb major scale in treble clef, spanning one octave. The notes are Gb, Ab, Bb, Cb, Db, Eb, Fb, Gb. Fingerings are indicated by letters L, R, K, S, and numbers 2.

Eb natural minor R L R K R R K R L R S R

Musical notation for the Eb natural minor scale in treble clef, spanning one octave. The notes are Eb, Fb, Gb, Ab, Bb, Cb, Db, Eb. Fingerings are indicated by letters R, L, K, S and numbers 2.

Eb harmonic minor R R K R R K R R S R

Musical notation for the Eb harmonic minor scale in treble clef, spanning one octave. The notes are Eb, Fb, Gb, Ab, Bb, Cb, Db, Eb. Fingerings are indicated by letters R, L, K, S and numbers 2.

Eb melodic minor R R K R R K R L R S R

Musical notation for the Eb melodic minor scale in treble clef, spanning one octave. The notes are Eb, Fb, Gb, Ab, Bb, Cb, Db, Eb. Fingerings are indicated by letters R, L, K, S and numbers 2.

B major R L R 2 R R 2 R L R R

Musical notation for the B major scale in treble clef, spanning one octave. The notes are B, C#, D#, E, F#, G#, A#, B. Fingerings are indicated by letters R, L, K, S and numbers 2.

G# natural minor R L R 2 2 R L R R K R

Musical notation for the G# natural minor scale in treble clef, spanning one octave. The notes are G#, A#, B, C, D, E, F, G#. Fingerings are indicated by letters R, L, K, S and numbers 2.

G# harmonic minor R L R R L R R K R

Musical notation for the G# harmonic minor scale in treble clef, spanning one octave. The notes are G#, A#, B, C, D, E, F, G#. Fingerings are indicated by letters R, L, K, S and numbers 2.

G# melodic minor R L R 2 R L R R K R

Musical notation for the G# melodic minor scale in treble clef, spanning one octave. The notes are G#, A#, B, C, D, E, F, G#. Fingerings are indicated by letters R, L, K, S and numbers 2.

E major R L R R L R R L R R

Musical notation for the E major scale in treble clef, spanning one octave. The notes are E, F#, G#, A, B, C#, D#, E. Fingerings are indicated by letters R, L, K, S and numbers 2.

C# natural minor R L R R L R R

Musical notation for the C# natural minor scale in treble clef, spanning one octave. The notes are C#, D#, E, F, G, A, B, C#. Fingerings are indicated by letters R, L, K, S and numbers 2.

C# harmonic minor R L R R L R R

Musical notation for the C# harmonic minor scale in treble clef, spanning one octave. The notes are C#, D#, E, F, G, A, B, C#. Fingerings are indicated by letters R, L, K, S and numbers 2.

C# melodic minor R L R R L R R

Musical notation for the C# melodic minor scale in treble clef, spanning one octave. The notes are C#, D#, E, F, G, A, B, C#. Fingerings are indicated by letters R, L, K, S and numbers 2.

A major

F# natural minor

F# harmonic minor

F# melodic minor

D major

B natural minor

B harmonic minor

B melodic minor

G major

E natural minor

E harmonic minor

E melodic minor

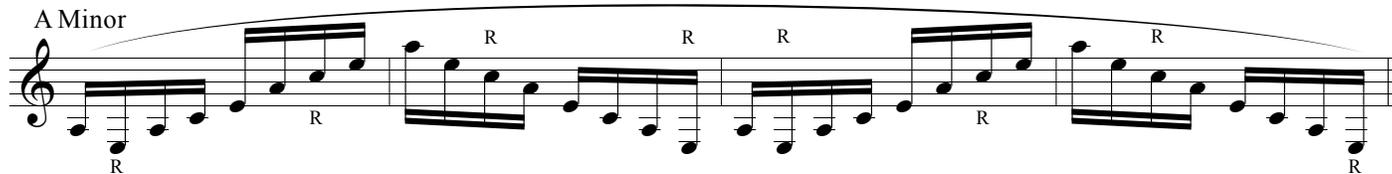
Major & Minor Arpeggios

C major



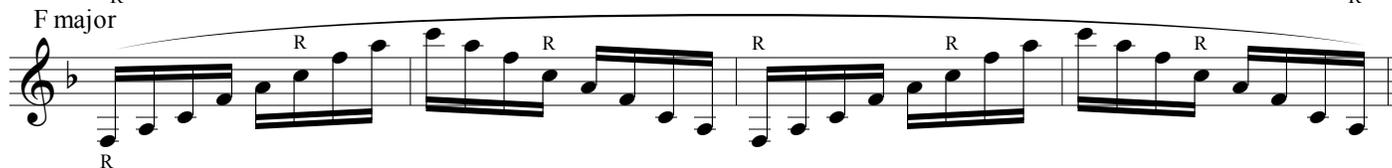
Musical notation for C major arpeggio in treble clef, 2/4 time. The melody consists of quarter notes: C4, E4, G4, C5, G4, E4, C4. The bass line consists of quarter notes: C3, E3, G3, C4, G3, E3, C3. The right hand is marked with 'R' and the left hand with 'L'.

A minor



Musical notation for A minor arpeggio in treble clef, 2/4 time. The melody consists of quarter notes: A3, C4, E4, A4, E4, C4, A3. The bass line consists of quarter notes: A2, C3, E3, A3, E3, C3, A2. The right hand is marked with 'R' and the left hand with 'L'.

F major



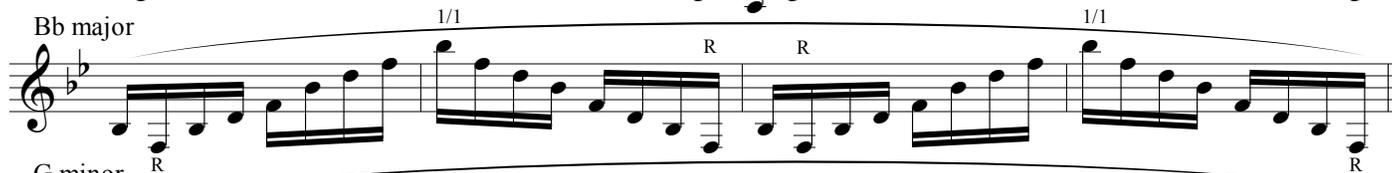
Musical notation for F major arpeggio in treble clef, 2/4 time. The melody consists of quarter notes: F3, A3, C4, F4, C4, A3, F3. The bass line consists of quarter notes: F2, A2, C3, F3, C3, A2, F2. The right hand is marked with 'R' and the left hand with 'L'.

D minor



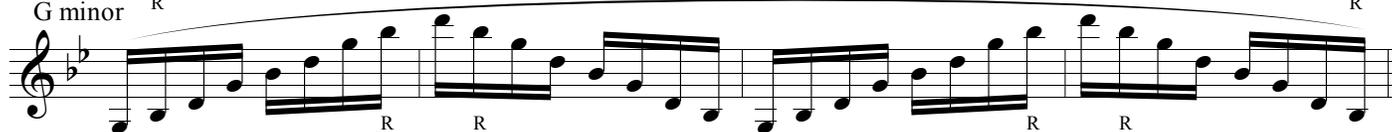
Musical notation for D minor arpeggio in treble clef, 2/4 time. The melody consists of quarter notes: D3, F3, A3, D4, A3, F3, D3. The bass line consists of quarter notes: D2, F2, A2, D3, A2, F2, D2. The right hand is marked with 'R' and the left hand with 'L'.

Bb major



Musical notation for Bb major arpeggio in treble clef, 2/4 time. The melody consists of quarter notes: Bb3, D4, F4, Bb4, F4, D4, Bb3. The bass line consists of quarter notes: Bb2, D3, F3, Bb3, F3, D3, Bb2. The right hand is marked with 'R' and the left hand with 'L'. There are '1/1' markings above the first and third measures.

G minor



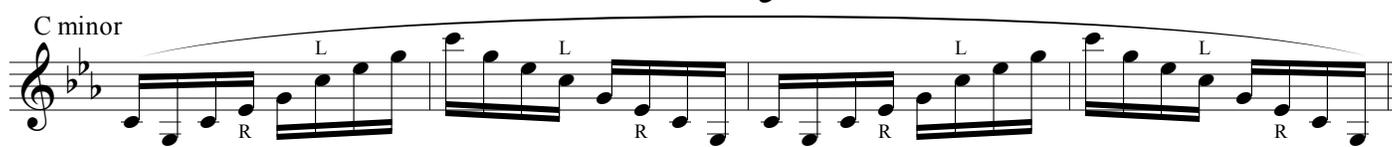
Musical notation for G minor arpeggio in treble clef, 2/4 time. The melody consists of quarter notes: G3, Bb3, D4, G4, D4, Bb3, G3. The bass line consists of quarter notes: G2, Bb2, D3, G3, D3, Bb2, G2. The right hand is marked with 'R' and the left hand with 'L'.

Eb major



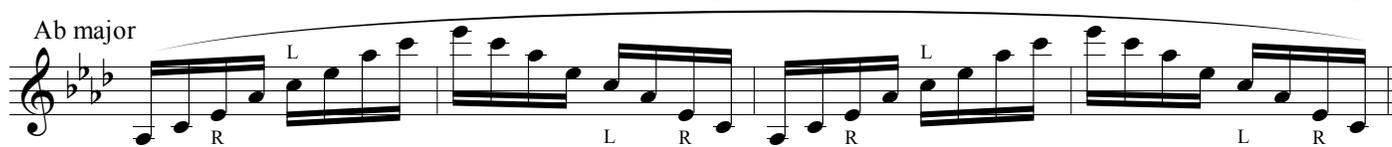
Musical notation for Eb major arpeggio in treble clef, 2/4 time. The melody consists of quarter notes: Eb3, G3, Bb3, Eb4, Bb3, G3, Eb3. The bass line consists of quarter notes: Eb2, G2, Bb2, Eb3, Bb2, G2, Eb2. The right hand is marked with 'R' and the left hand with 'L'.

C minor



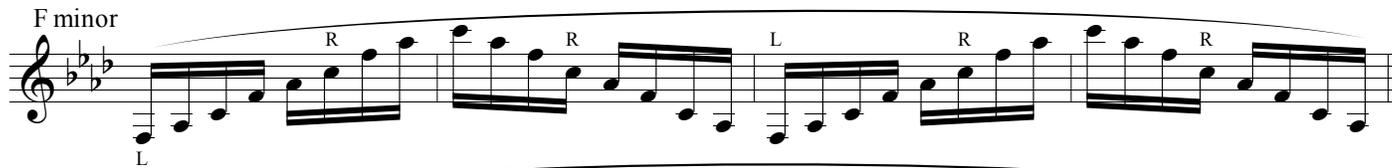
Musical notation for C minor arpeggio in treble clef, 2/4 time. The melody consists of quarter notes: C3, Eb3, G3, C4, G3, Eb3, C3. The bass line consists of quarter notes: C2, Eb2, G2, C3, G2, Eb2, C2. The right hand is marked with 'R' and the left hand with 'L'.

Ab major



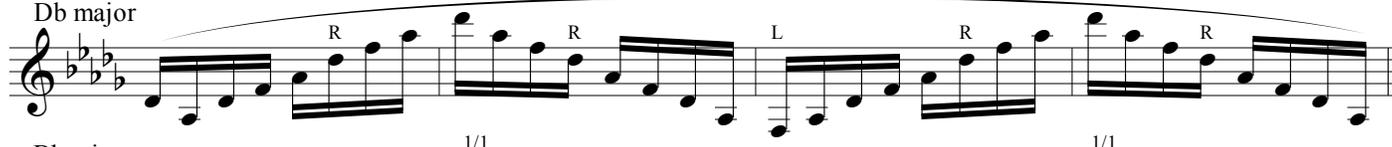
Musical notation for Ab major arpeggio in treble clef, 2/4 time. The melody consists of quarter notes: Ab3, C4, Eb4, Ab4, Eb4, C4, Ab3. The bass line consists of quarter notes: Ab2, C3, Eb3, Ab3, Eb3, C3, Ab2. The right hand is marked with 'R' and the left hand with 'L'.

F minor



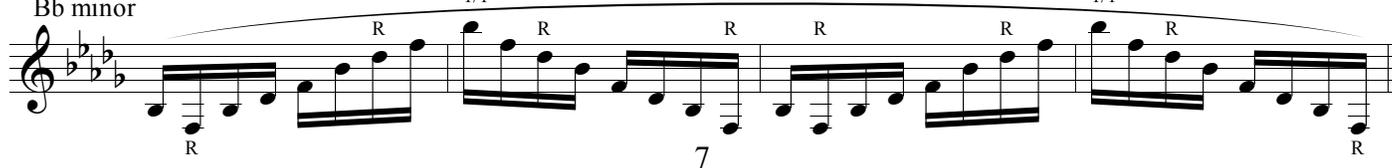
Musical notation for F minor arpeggio in treble clef, 2/4 time. The melody consists of quarter notes: F3, Ab3, C4, F4, C4, Ab3, F3. The bass line consists of quarter notes: F2, Ab2, C3, F3, C3, Ab2, F2. The right hand is marked with 'R' and the left hand with 'L'.

Db major



Musical notation for Db major arpeggio in treble clef, 2/4 time. The melody consists of quarter notes: Db3, F3, Ab3, Db4, Ab3, F3, Db3. The bass line consists of quarter notes: Db2, F2, Ab2, Db3, Ab2, F2, Db2. The right hand is marked with 'R' and the left hand with 'L'.

Bb minor



Musical notation for Bb minor arpeggio in treble clef, 2/4 time. The melody consists of quarter notes: Bb3, D4, F4, Bb4, F4, D4, Bb3. The bass line consists of quarter notes: Bb2, D3, F3, Bb3, F3, D3, Bb2. The right hand is marked with 'R' and the left hand with 'L'. There are '1/1' markings above the first and third measures.

1/2 1/2 1/2 1/2

Gb major

Eb minor

B major

G# minor

E major

C# minor

A major

F# minor

D major

B minor

G major

E minor

Major & Minor Scales in Thirds

C major

A minor

F major

D minor

Bb major

G minor

Eb major

C minor

Ab major

F minor

Db major

Bb minor

Detailed description: This page contains 11 musical staves, each representing a different scale in thirds. Each staff begins with a treble clef and a common time signature (C). The scales are: C major, A minor, F major, D minor, Bb major, G minor, Eb major, C minor, Ab major, F minor, Db major, and Bb minor. The notation includes eighth and sixteenth notes, with some scales featuring slurs and ties. Fingerings are indicated by numbers 1, 2, and 3. Hand indicators 'L' and 'R' are placed above or below notes to show which hand plays them. The scales are arranged in an alternating order of major and minor modes.

Gb major

Handwritten musical notation for the Gb major scale. The staff shows the notes Gb, Ab, Bb, Cb, Db, Eb, Fb, Gb. Fingerings are indicated by numbers 1-2 below the notes. Technical markings include 'L R L L 2 2 L L R' above the staff and 'R 2 2 R L S 1 L 1 S L R 2 L L R' below the staff.

Eb minor

Handwritten musical notation for the Eb minor scale. The staff shows the notes Eb, Fb, Gb, Ab, Bb, Cb, Db, Eb. Fingerings are indicated by numbers 1-2 below the notes. Technical markings include 'L 2 2 R R R R R 2 2 L L R L' above the staff and 'L S 1 R 1 S L R' below the staff.

B major

Handwritten musical notation for the B major scale. The staff shows the notes B, C#, D#, E, F#, G#, A#, B. Fingerings are indicated by numbers 1-2 below the notes. Technical markings include 'R L L 2 2 R R R 2 2 L L' above the staff and '2 R R 1 1 L R L 1 1 R R 2 K' below the staff.

G# minor

Handwritten musical notation for the G# minor scale. The staff shows the notes G#, A#, B#, C#, D#, E#, F#, G#. Fingerings are indicated by numbers 1-2 below the notes. Technical markings include 'R L L R L L' above the staff and '2 2 R R L R L 1 1 R R 2 2' below the staff.

E major

Handwritten musical notation for the E major scale. The staff shows the notes E, F#, G#, A, B, C#, D#, E. Fingerings are indicated by numbers 1-2 below the notes. Technical markings include 'R L L 2 L L' above the staff and 'L L 2 2 R R 1 1 L R L 1 1 R R 2 2 L L R R' below the staff.

C# minor

Handwritten musical notation for the C# minor scale. The staff shows the notes C#, D#, E#, F#, G#, A#, B#, C#. Fingerings are indicated by numbers 1-2 below the notes. Technical markings include 'L L 2 2 R R R R 2 2 L L R' above the staff and 'R 1 1 R R L 1 1 R R R' below the staff.

A major

Handwritten musical notation for the A major scale. The staff shows the notes A, B, C, D, E, F#, G#, A. Fingerings are indicated by numbers 1-2 below the notes. Technical markings include 'L R 2 2 2 2 R L R' above the staff and '2 1 1 L R L 1 1 2 2' below the staff.

F# minor

Handwritten musical notation for the F# minor scale. The staff shows the notes F#, G#, A#, B#, C#, D#, E#, F#. Fingerings are indicated by numbers 1-2 below the notes. Technical markings include 'L L 2 2 R L R' above the staff and 'R 2 2 R L S 1 L R L 1 1 2 2 L L R' below the staff.

D minor

Handwritten musical notation for the D minor scale. The staff shows the notes D, E, F, G, A, B, C, D. Fingerings are indicated by numbers 1-2 below the notes. Technical markings include 'R L R 2 2 2 2 R L' above the staff and '1 1 L R L 1 1' below the staff.

B minor

Handwritten musical notation for the B minor scale. The staff shows the notes B, C, D, E, F, G, A, B. Fingerings are indicated by numbers 1-2 below the notes. Technical markings include 'R L R 2 2 R R 2 2 R L' above the staff and '2 1 1 L R L 1 1 2 K' below the staff.

G major

Handwritten musical notation for the G major scale. The staff shows the notes G, A, B, C, D, E, F#, G. Fingerings are indicated by numbers 1-2 below the notes. Technical markings include 'R L R 2 2 2 2 R L' above the staff and '2 2 1 1 L R L 1 1 2 2 R' below the staff.

E minor

Handwritten musical notation for the E minor scale. The staff shows the notes E, F, G, A, B, C, D, E. Fingerings are indicated by numbers 1-2 below the notes. Technical markings include 'R L L 2 R L' above the staff and 'L R 2 2 R R 1 1 L R L 1 1 2 2 R L R R' below the staff.

Additional Scales and Arpeggios

Chromatic Scale

Two staves of musical notation for a chromatic scale in 4/4 time. The first staff shows the ascending scale from C4 to C5, and the second staff shows the descending scale from C5 to C4. The notes are: C4, C#4, D4, D#4, E4, E#4, F4, F#4, G4, G#4, A4, A#4, B4, B#4, C5 (ascending); C5, B#4, B4, A#4, A4, G#4, G4, F#4, F4, E#4, E4, D#4, D4, C#4, C4 (descending).

Chromatic Scale in Major Thirds

Three staves of musical notation for a chromatic scale in major thirds in 6/8 time. The first staff shows the ascending scale from C4 to C5, and the second and third staves show the descending scale from C5 to C4. The notes are: C4, C#4, D4, D#4, E4, E#4, F4, F#4, G4, G#4, A4, A#4, B4, B#4, C5 (ascending); C5, B#4, B4, A#4, A4, G#4, G4, F#4, F4, E#4, E4, D#4, D4, C#4, C4 (descending).

Chromatic Scale in Minor Thirds

Three staves of musical notation for a chromatic scale in minor thirds in 6/8 time. The first staff shows the ascending scale from C4 to C5, and the second and third staves show the descending scale from C5 to C4. The notes are: C4, C#4, D4, D#4, E4, E#4, F4, F#4, G4, G#4, A4, A#4, B4, B#4, C5 (ascending); C5, B#4, B4, A#4, A4, G#4, G4, F#4, F4, E#4, E4, D#4, D4, C#4, C4 (descending).

Minor Scale Forms

Natural: follows key signature



Harmonic: raised 7th ascending and descending



Melodic: raised 6th and 7th ascending; natural descending

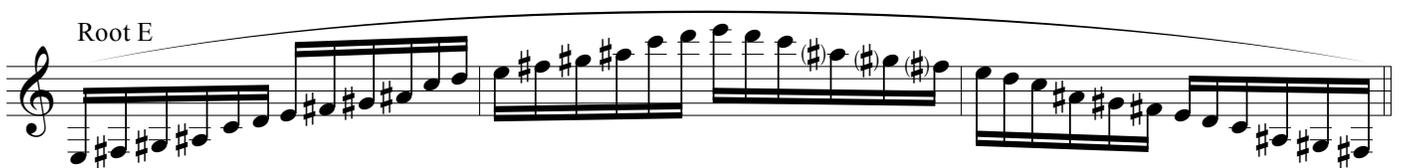


Whole Tone Scales

Root F



Root E

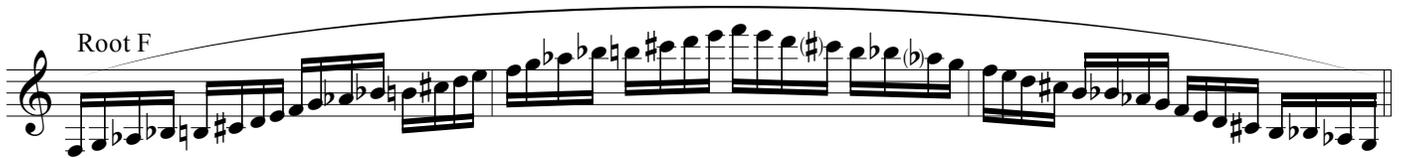


Octatonic Scales

Root E



Root F



Root F#



Blues Scales

The image displays 12 staves of musical notation for Blues Scales. The first six staves are in the key of B-flat major (two flats), and the last six staves are in the key of C major (no sharps or flats). Each staff contains two measures of music, with a slur over the first measure and a fermata over the second measure. The notation includes treble clefs, 4/4 time signatures, and various note values (quarter, eighth, and sixteenth notes) with accidentals (sharps, flats, and naturals).

Diminished Seventh Arpeggios

Roots: E, G, Bb, Db

Roots: F, Ab, B, D

Roots: F#, A, C, Eb

Augmented Arpeggios

Roots: E, G#, C

Roots: F, A, C#

Roots: Gb, Bb, D

Roots: G, B, D#

Major-Minor Seventh Arpeggios

This musical score consists of 11 staves of music, each containing two measures of eighth-note arpeggios. The first staff is in C major (no sharps or flats). The second staff is in C minor (one flat). The third staff is in D minor (two flats). The fourth staff is in E-flat major (three flats). The fifth staff is in E minor (three flats). The sixth staff is in F major (one flat). The seventh staff is in F minor (two flats). The eighth staff is in G major (one sharp). The ninth staff is in G minor (two flats). The tenth staff is in A major (no sharps or flats). The eleventh staff is in A minor (no sharps or flats). Each staff begins with a treble clef and a common time signature (C). The arpeggios are grouped by a slur and include a fermata at the end of each measure.

Minor-Minor Seventh Arpeggios

The image displays a musical score for guitar or piano, titled "Minor-Minor Seventh Arpeggios". It consists of 12 staves of music, each containing two measures. The music is written in a treble clef and features a consistent rhythmic pattern of eighth and sixteenth notes. The first staff is in C major (one flat). The second staff is in D minor (two flats). The third staff is in E-flat major (three flats). The fourth staff is in F major (two flats). The fifth staff is in G major (one sharp). The sixth staff is in A major (three sharps). The seventh staff is in B major (two sharps). The eighth staff is in C major (no sharps or flats). The ninth staff is in D major (two sharps). The tenth staff is in E major (three sharps). The eleventh staff is in F major (two flats). The twelfth staff is in G major (one sharp). Each staff contains two measures of music, with a slur over the first measure and a fermata over the second measure.

Major-Major Seventh Arpeggios

This musical score consists of 12 staves of music, each containing two measures of an arpeggiated major-major seventh chord. The chords are: C major (C-E-G-B), D major (D-F-A-C), E major (E-G-B-D), F major (F-A-C-E), G major (G-B-D-F), A major (A-C-E-G), B major (B-D-F-A), C minor (C-Eb-G-Bb), D minor (D-F-A-C), E minor (E-G-B-D), F minor (F-A-C-Eb), and G minor (G-B-D-F). The notes are arpeggiated in an ascending and then descending pattern. The first staff is in C major, and the subsequent staves follow a chromatic sequence of major and minor chords.

Half-Diminished Seventh Arpeggios

The image displays a musical score for half-diminished seventh arpeggios in C major, organized into 12 staves. The first two staves show ascending and descending arpeggios for the first chord, C7b9 (C, Eb, F, Gb). The next six staves show ascending and descending arpeggios for the second chord, F7b9 (F, Ab, Bb, C). The final four staves show ascending and descending arpeggios for the third chord, Bb7b9 (Bb, Db, Eb, F). Each staff contains two measures of music, with a slur over the first measure and a slur over the second measure. The notes are written in a rhythmic pattern of eighth notes, and the key signature is one flat (Bb).

Third-Octave Guide

Scales

The image displays 12 musical staves, each representing a different scale in the third octave. Each staff is divided into two measures. The notes are written on a five-line staff with a treble clef. Chord labels are placed above specific notes in each measure. The scales and their corresponding chord labels are as follows:

- Staff 1: G6.1, A6.2, B6.1, B6.1, A6.2, G6.1
- Staff 2: G6.1, A6.2, G6.1
- Staff 3: G#6.2, A6.2, G#6.2
- Staff 4: G#6.2, A6.2, G6.1
- Staff 5: G6.1, A6.2, A6.2, G6.1
- Staff 6: G6.1, A6.2, A6.2, G6.1
- Staff 7: G6.1, A6.2, B6.1, A6.2, G6.1
- Staff 8: Eb6.1, G6.1, A6.2, A6.2, G6.1, Eb6.1
- Staff 9: Eb6.1, G6.3, Eb6.1
- Staff 10: Eb6.1, G6.3, Eb6.1
- Staff 11: G6.3, Eb6.1

This page contains 12 staves of musical notation for guitar. The notation is organized into two systems of six staves each. The first system (staves 1-6) features a key signature of one flat (Bb) and a 2/4 time signature. The notes are primarily eighth and quarter notes, often beamed together. Chord labels are placed above specific notes: Eb6.1, G6.1, Ab6.2, and B6.1. The second system (staves 7-12) continues the melodic line, with notes marked with an asterisk (*) indicating specific techniques or accents. Chord labels in this system include Ab6.2, A6.2, and G6.1.

This page of musical notation for guitar consists of 13 staves. The notation includes various chords and melodic lines. Chords are labeled in boxes: Eb6.1, Ab6.2, B6.2, G#6.2, G6.1, A6.2, and B6.1. Some notes are marked with an asterisk (*) or an 'x'.

Staff 1: Treble clef, key signature of one flat. Notes: Bb2, Bb2. Asterisks are above the 5th and 9th notes.

Staff 2: Treble clef, key signature of one flat. Notes: Bb2, Bb2. Chord labels: Eb6.1, Ab6.2, B6.2, B6.2, Ab6.2.

Staff 3: Treble clef, key signature of one flat. Notes: Bb2, Bb2. Chord labels: Eb6.1, Ab6.2, B6.2, B6.2, Ab6.2.

Staff 4: Treble clef, key signature of one flat. Notes: Bb2, Bb2. Chord labels: Eb6.1, Ab6.2, B6.2, Ab6.2.

Staff 5: Treble clef, key signature of one sharp. Notes: G#2, G#2. Chord labels: G#6.2, B6.2, G#6.2. Asterisks are above the 1st and 12th notes.

Staff 6: Treble clef, key signature of one sharp. Notes: G#2, G#2. Chord labels: G#6.2. Asterisks are above the 3rd and 11th notes.

Staff 7: Treble clef, key signature of one sharp. Notes: G#2, G#2. Chord labels: G6.1, G#6.2, G6.1. Asterisks are above the 4th and 10th notes. An 'x' is below the 6th note.

Staff 8: Treble clef, key signature of one sharp. Notes: G#2, G#2. Chord labels: G6.1, G#6.2. Asterisks are above the 4th and 10th notes. An 'x' is below the 6th note.

Staff 9: Treble clef, key signature of one sharp. Notes: G#2, G#2. Chord labels: G6.1, G#6.2. Asterisks are above the 4th and 10th notes. An 'x' is below the 6th note.

Staff 10: Treble clef, key signature of one sharp. Notes: G#2, G#2. Chord labels: G#6.2, B6.1. Asterisks are above the 1st and 7th notes.

Staff 11: Treble clef, key signature of one sharp. Notes: G#2, G#2. Chord labels: G#6.2, A6.2, B6.1. Asterisks are above the 1st and 12th notes.

Staff 12: Treble clef, key signature of one sharp. Notes: G#2, G#2. Chord labels: G#6.2, A6.2, A6.2, G#6.2. Asterisks are above the 1st and 12th notes.

Staff 13: Treble clef, key signature of one sharp. Notes: G#2, G#2. Chord labels: G#6.2, B6.1, A6.2, G#6.2. Asterisks are above the 1st and 12th notes.

G#6.2 A6.2 G#6.2
 *
 G6.1 A6.2 B6.1 B6.1 A6.2 G6.1
 G6.1 A6.2 B6.2 A6.2 G6.1
 G6.1 B6.2 G6.1
 G#6.2 B6.2 A6.2 G6.1
 G6.3
 D#6.1 D#6.1
 *

Third-Octave Arpeggios

Chord labels for the 12 staves:

- Staff 1: G6.2, G6.2, A6.1
- Staff 2: A6.2, A6.2
- Staff 3: G6.2
- Staff 4: Eb6.1, G6.2, Eb6.1, Eb6.1, G6.2, G6.2, Eb6.1
- Staff 5: Eb6.1, Ab6.3, Eb6.1
- Staff 6: Ab6.3, Ab6.3
- Staff 7: Eb6.1, Eb6.1
- Staff 8: D#6.1, B6.1, D#6.1, D#6.1, Ab6.3, D#6.1
- Staff 9: G#6.3, G#6.3
- Staff 10: A6.1
- Staff 11: A6.2, A6.2, B6.1
- Staff 12: G6.2

Eb6.1 G6.2 Ab6.2 G6.1 Ab6.2
 Ab6.2 G6.1 Ab6.2 G6.2 Eb6.1 Eb6.1
 Eb6.1 Eb6.1 G6.2 A6.2 G6.1 B6.1 A6.2 B6.1
 Ab6.2 G6.1 Ab6.2 G6.2 Eb6.1 Eb6.1
 * Eb6.1 G6.2 Ab6.2 G6.1
 Ab6.2 G6.2 Eb6.1 *
 G6.2
 *
 Eb6.1 Ab6.2 G6.1 Ab6.2
 Ab6.2 Ab6.2 Eb6.1 *
 * Eb6.1 G6.2 A6.2 G6.1 A6.2
 Ab6.2 Eb6.1 *

This musical score consists of ten staves of music. The notation includes various chords and notes, with some notes marked with an asterisk (*). Chord labels are placed above the notes, including Eb6.1, Ab6.2, Cb6.1, D#6.1, G#6.2, B6.1, G6.2, G6.1, and A6.2.

G#6.2 A6.2 G#6.2 B6.1
 A6.2 G#6.2
 * D#6.1 G#6.2
 G6.2 A6.2 G6.1 B6.1 A6.2 B6.1
 B6.1 A6.2 B6.1 G6.1 A6.2 G6.2
 G#6.2 G#6.2 B6.1
 B6.1 G6.1 A6.2 G6.2
 G6.2 A6.2
 G6.1
 *

Practice Techniques

Rhythm Patterns

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

Other Practice Techniques

Add a note

Displaced Accents

Intermediate Single & Multiple Articulation Exercises

1. Pre-Langenus #1

etc.

2. Pre-Langenus #2

etc.

3. Endurance with a single note

etc.

4. Five-note scales

etc.

5. Endurance with scales

etc.

Single Articulation

Adapted from Langenus, pg. 22



Single/Multiple Articulation

Adapted from Langenus, pg. 23

The musical score consists of eight staves of music in 6/8 time, featuring a variety of articulation techniques. The key signature has two flats (B-flat and E-flat). The score is marked with dynamic levels: *p* (piano), *mf* (mezzo-forte), and *f* (forte). Articulation includes slurs, accents (>), and breath marks (<>). The piece concludes with a fermata over the final note.

Staff 1: *p*, breath marks (<>)

Staff 2: *mf*, breath marks (<>)

Staff 3: *p*, *f*, slur

Staff 4: *p*, *f*, slur

Staff 5: *f*, *p*, slur

Staff 6: *p*, *f*, slur

Staff 7: *p*, *f*, slur

Multiple Articulation

A musical score for a single melodic line in 4/4 time, consisting of 32 measures. The score is divided into two systems of 16 measures each. The first system (measures 1-16) starts with a treble clef, a key signature of one sharp (F#), and a 4/4 time signature. It features a sequence of eighth-note patterns with various articulations, including slurs and accents. The second system (measures 17-32) continues the melodic development, introducing a key signature change to one flat (Bb) at measure 17. The notation includes various rhythmic values, slurs, and articulation marks throughout.

Articulation Patterns

1. 

2. 

3. 

4. 

5. 

6. 

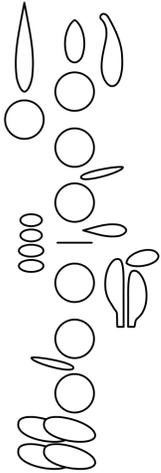
7. 

8. 

9. 

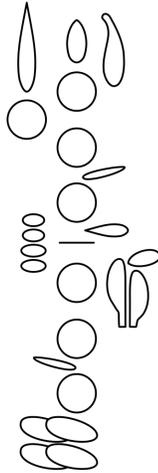
CUSTOM FINGERING CHART

Pitch: _____



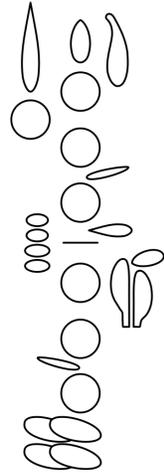
Notes:

Pitch: _____



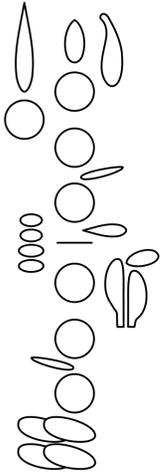
Notes:

Pitch: _____



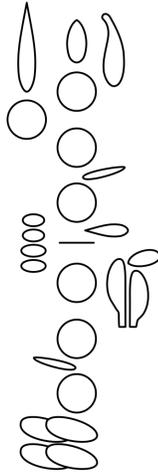
Notes:

Pitch: _____



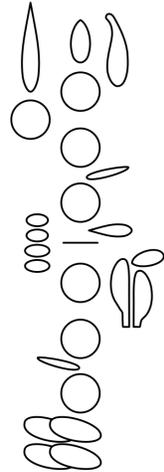
Notes:

Pitch: _____



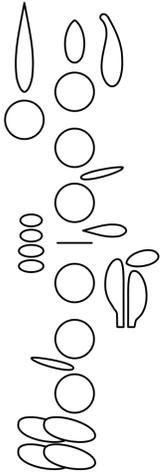
Notes:

Pitch: _____



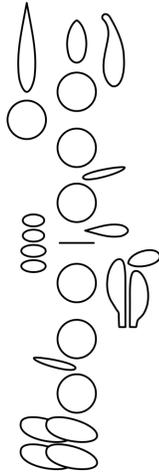
Notes:

Pitch: _____



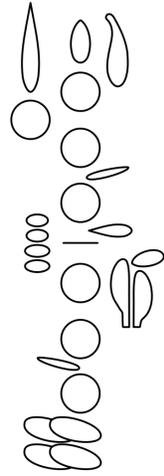
Notes:

Pitch: _____



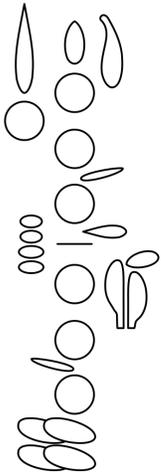
Notes:

Pitch: _____



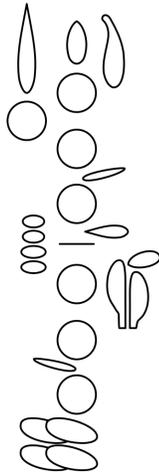
Notes:

Pitch: _____



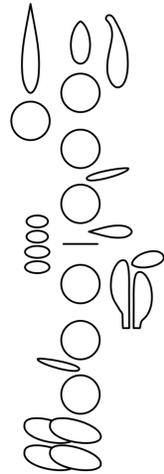
Notes:

Pitch: _____



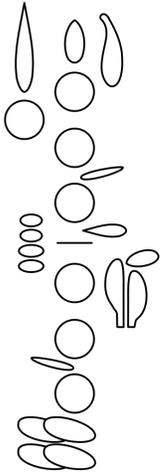
Notes:

Pitch: _____



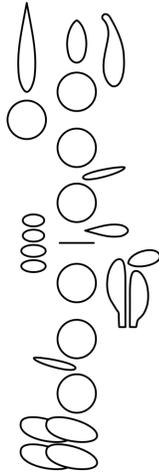
Notes:

Pitch: _____



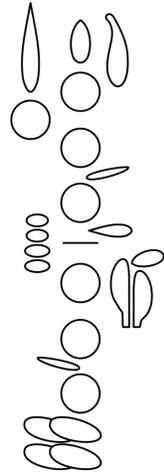
Notes:

Pitch: _____



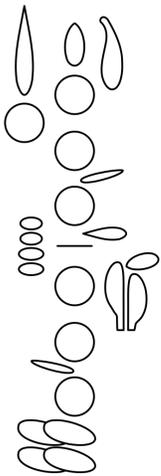
Notes:

Pitch: _____



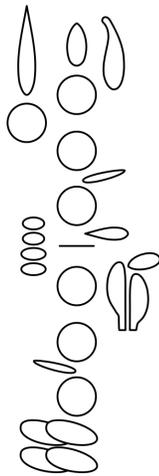
Notes:

Pitch: _____



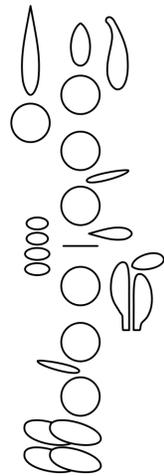
Notes:

Pitch: _____



Notes:

Pitch: _____



Notes:

Third-Octave Fingering Guide

The following fingering chart includes fingerings you can use to play the third octave of all major and minor scales, arpeggios, and thirds. The fingerings are ordered chromatically with the pitch and octave indicated in the label. Notes with more than one fingering option have the specific fingering indicated above the note. Notes without a label use the indicated fingering in the chart. When first learning these third-octave exercises, fold out the fingering chart so it is visible next to the page with the exercises. Once you become familiar with the fingerings, try to play the exercises with the chart folded back into the book.

Fingering Notes

- Db/C#6 Stable fingering; avoid using the RH Eb key
- D6 Stable fingering; sometimes the Eb key is unnecessary—check tuning
- Eb/D#6.1 Stable fingering, can be flat on some clarinets
- Eb/D#6.2 Tends to be flat—check tuning; makes Db/Eb transitions much easier
Note: An Eb marked with an * indicates that Eb6.2 is technically easier to execute. However, if the pitch is too low, Eb6.1 should be used.
- E6 Requires proper voicing to avoid squeaking to A6; half-holing the first LH tone hole improves stability
- F6 Relatively stable fingering; can be flat on some clarinets
- F#6 Tends to be flat—the RH sliver key will help raise pitch
- G6.1 Requires proper voicing to avoid squeaking to B6 or dropping to C#6
- G6.2 Excellent response; may be slightly flat—the RH sliver key will help raise pitch
- G6.3 RH sliver key necessary to raise pitch; proper voicing
- Ab/G#6.1 Fantastic response and intonation; awkward for technical passages
- Ab/G#6.2 Requires accurate voicing for tuning and response; excellent for scalar passages
- Ab/G#6.3 Great for leaps/arpeggios; flexible intonation; can be unstable
- A6.1 Fantastic response; can be sharp; excellent response
- A6.2 Good response, but not as good as A6.1. Slightly lower pitch than A6.1
- Bb/A#6 Requires accurate voicing; excellent pitch; easy response
- B6.1 Stable response, pitch, and sound; requires accurate voicing for leaps and scalar passages
- B6.2 Slightly flat; excellent response—great for leaps
- C7 Stable fingering; excellent, flexible pitch; LH G# key can be added to raise pitch, if necessary
- Db/C#7 Full sound; can be unstable; sharp
- D7 Excellent sound and pitch; great for scalar passages; requires accurate voicing to avoid G6 or B6
- Eb/D#7 Can be sharp or flat, depending on reed—the LH C#/G# key will raise the pitch. Articulation may be necessary when leaping to Eb7 from Bb6 in the Eb major and minor arpeggios.
- E7 Can be sharp or flat, depending on reed; requires accurate voicing
- F7 Tends to be flat; very dependent on reed

Third-Octave Fingering Guide

Db/C#6	D6	Eb/D#6.1	Eb/D#6.2	E6	F6
Gb/F#6	G6.1	G6.2	G6.3	Ab/G#6.1	Ab/G#6.2
Ab/G#6.3	A6.1	A6.2	Bb/A#6	B6.1	B6.2
C7	Db/C#7	D7	Eb/D#7	E7	F7