

# Tuba

# Scales

major, minor (natural, harmonic, melodic)  
chromatic, scale patterns

Esther Armendariz

Memorize these scales over time.

You may alter or use these scales in the following ways to become comfortable in the key:

- Rhythm (e.g. straight quarters, halves)
- Tempo
- Articulation (e.g. staccato, slurred, glissed)
- Dynamics
- The octave played, or playing in two octaves
- Improvise a melody in that scale
- Play a song by ear in the scale

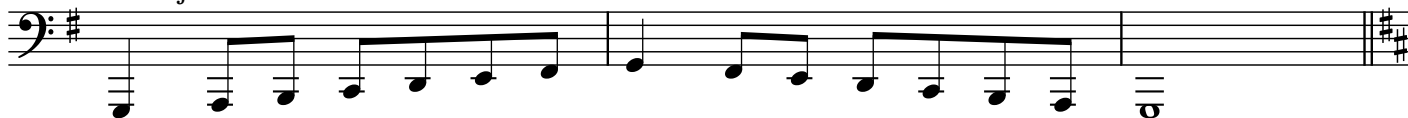
## Major Scales

around circle of 5ths

C Major



4 G Major



7 D Major



10 A Major



13 E Major



16 B Major



2

19 Gb Major

Musical notation for Gb Major, measures 19-21. The key signature has five flats (Bb, Eb, Ab, Db, Gb). The melody consists of eighth notes: Gb2, Ab2, Bb2, C3, D3, Eb3, F3, Gb3, Ab3, Bb3, C4, D4, Eb4, F4, Gb4, Ab4, Bb4, C5, D5, Eb5, F5, Gb5, Ab5, Bb5, C6, D6, Eb6, F6, Gb6, Ab6, Bb6, C7, D7, Eb7, F7, Gb7, Ab7, Bb7, C8, D8, Eb8, F8, Gb8, Ab8, Bb8, C9, D9, Eb9, F9, Gb9, Ab9, Bb9, C10, D10, Eb10, F10, Gb10, Ab10, Bb10, C11, D11, Eb11, F11, Gb11, Ab11, Bb11, C12, D12, Eb12, F12, Gb12, Ab12, Bb12, C13, D13, Eb13, F13, Gb13, Ab13, Bb13, C14, D14, Eb14, F14, Gb14, Ab14, Bb14, C15, D15, Eb15, F15, Gb15, Ab15, Bb15, C16, D16, Eb16, F16, Gb16, Ab16, Bb16, C17, D17, Eb17, F17, Gb17, Ab17, Bb17, C18, D18, Eb18, F18, Gb18, Ab18, Bb18, C19, D19, Eb19, F19, Gb19, Ab19, Bb19, C20, D20, Eb20, F20, Gb20, Ab20, Bb20, C21, D21, Eb21, F21, Gb21, Ab21, Bb21, C22, D22, Eb22, F22, Gb22, Ab22, Bb22, C23, D23, Eb23, F23, Gb23, Ab23, Bb23, C24, D24, Eb24, F24, Gb24, Ab24, Bb24, C25, D25, Eb25, F25, Gb25, Ab25, Bb25, C26, D26, Eb26, F26, Gb26, Ab26, Bb26, C27, D27, Eb27, F27, Gb27, Ab27, Bb27, C28, D28, Eb28, F28, Gb28, Ab28, Bb28, C29, D29, Eb29, F29, Gb29, Ab29, Bb29, C30, D30, Eb30, F30, Gb30, Ab30, Bb30, C31, D31, Eb31, F31, Gb31, Ab31, Bb31, C32, D32, Eb32, F32, Gb32, Ab32, Bb32, C33, D33, Eb33, F33, Gb33, Ab33, Bb33, C34, D34, Eb34, F34, Gb34, Ab34, Bb34, C35, D35, Eb35, F35, Gb35, Ab35, Bb35, C36, D36, Eb36, F36, Gb36, Ab36, Bb36, C37, D37, Eb37, F37, Gb37, Ab37, Bb37, C38, D38, Eb38, F38, Gb38, Ab38, Bb38, C39, D39, Eb39, F39, Gb39, Ab39, Bb39, C40, D40, Eb40, F40, Gb40, Ab40, Bb40, C41, D41, Eb41, F41, Gb41, Ab41, Bb41, C42, D42, Eb42, F42, Gb42, Ab42, Bb42, C43, D43, Eb43, F43, Gb43, Ab43, Bb43, C44, D44, Eb44, F44, Gb44, Ab44, Bb44, C45, D45, Eb45, F45, Gb45, Ab45, Bb45, C46, D46, Eb46, F46, Gb46, Ab46, Bb46, C47, D47, Eb47, F47, Gb47, Ab47, Bb47, C48, D48, Eb48, F48, Gb48, Ab48, Bb48, C49, D49, Eb49, F49, Gb49, Ab49, Bb49, C50, D50, Eb50, F50, Gb50, Ab50, Bb50, C51, D51, Eb51, F51, Gb51, Ab51, Bb51, C52, D52, Eb52, F52, Gb52, Ab52, Bb52, C53, D53, Eb53, F53, Gb53, Ab53, Bb53, C54, 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Ab321, Bb321, C322, D322, Eb322, F322, Gb322, Ab322, Bb322, C323, D323, Eb323, F323, Gb323, Ab323, Bb323, C324, D324, Eb324, F324, Gb324, Ab324, Bb324, C325, D325, Eb325, F325, Gb325, Ab325, Bb325, C326, D326, Eb326, F326, Gb326, Ab326, Bb326, C327, D327, Eb327, F327, Gb327, Ab327, Bb327, C328, D328, Eb328, F328, Gb328, Ab328, Bb328, C329, D329, Eb329, F329, Gb329, Ab329, Bb329, C330, D330, Eb330, F330, Gb330, Ab330, Bb330, C331, D331, Eb331, F331, Gb331, Ab331, Bb331, C332, D332, Eb332, F332, Gb332, Ab332, Bb332, C333, D333, Eb333, F333, Gb333, Ab333, Bb333, C334, D334, Eb334, F334, Gb334, Ab334, Bb334, C335, D335, Eb335, F335, Gb335, Ab335, Bb335, C336, D336, Eb336, F336, Gb336, Ab336, Bb336, C337, D337, Eb337, F337, Gb337, Ab337, Bb337, C338, D338, Eb338, F338, Gb338, Ab338, Bb338, C339, D339, Eb339, F339, Gb339, Ab339, Bb339, C340, D340, Eb340, F340, Gb340, Ab340, Bb340, C341, D341, Eb341, F341, Gb341, Ab341, Bb341, C342, D342, Eb342, F342, Gb342, Ab342, Bb342, C343, D343, Eb343, F343, Gb343, Ab343, Bb343, C344, D344, Eb344, F344, Gb344, Ab344, Bb344, C345, D345, Eb345, F345, Gb345, Ab345, Bb345, C346, D346, Eb346, F346, Gb346, Ab346, Bb346, C347, D347, Eb347, F347, Gb347, Ab347, Bb347, C348, D348, Eb348, F348, Gb348, Ab348, Bb348, C349, D349, Eb349, F349, Gb349, Ab349, Bb349, C350, D350, Eb350, F350, Gb350, Ab350, Bb350, C351, D351, Eb351, F351, Gb351, Ab351, Bb351, C352, D352, Eb352, F352, Gb352, Ab352

## Natural Minor Scales or "Aeolian Mode"

Starting the scale from the 6th note of a major scale results in its "relative minor" scale.

37

A Minor



40

E Minor



43

B Minor



46

F# Minor



49

C# Minor



52

G# Minor



4

55 Eb Minor



58 Bb Minor



61 F Minor



64 C Minor



67 G Minor



70 D Minor



**Harmonic Minor Scales (7th scale degree raised from Natural Minor)**

73

## A Harmonic Minor



76

## E Harmonic Minor



79

## B Harmonic Minor



82

## F# Harmonic Minor



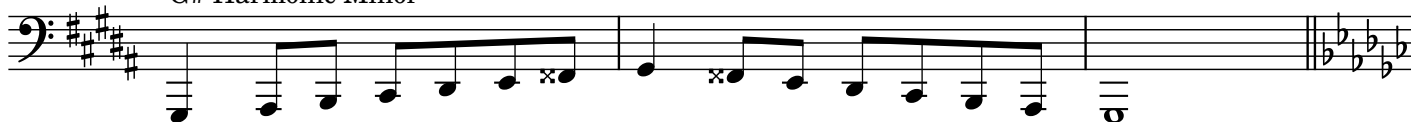
85

## C# Harmonic Minor



88

## G# Harmonic Minor



6

91 Eb Harmonic Minor

This musical staff shows the Eb Harmonic Minor scale in bass clef. It consists of three measures: the first measure contains the notes Eb, F, G, Ab, Bb, C, D, Eb; the second measure contains Eb, F, G, Ab, Bb, C, D, Eb; and the third measure contains Eb, F, G, Ab, Bb, C, D, Eb. The key signature has three flats (Bb, Eb, Ab).

94 Bb Harmonic Minor

This musical staff shows the Bb Harmonic Minor scale in bass clef. It consists of three measures: the first measure contains the notes Bb, C, D, Eb, F, G, Ab, Bb; the second measure contains Bb, C, D, Eb, F, G, Ab, Bb; and the third measure contains Bb, C, D, Eb, F, G, Ab, Bb. The key signature has two flats (Bb, Eb).

97 F Harmonic Minor

This musical staff shows the F Harmonic Minor scale in bass clef. It consists of three measures: the first measure contains the notes F, G, Ab, Bb, C, D, Eb, F; the second measure contains F, G, Ab, Bb, C, D, Eb, F; and the third measure contains F, G, Ab, Bb, C, D, Eb, F. The key signature has two flats (Bb, Eb).

100 C Harmonic Minor

This musical staff shows the C Harmonic Minor scale in bass clef. It consists of three measures: the first measure contains the notes C, D, Eb, F, G, Ab, Bb, C; the second measure contains C, D, Eb, F, G, Ab, Bb, C; and the third measure contains C, D, Eb, F, G, Ab, Bb, C. The key signature has one flat (Eb).

103 G Harmonic Minor

This musical staff shows the G Harmonic Minor scale in bass clef. It consists of three measures: the first measure contains the notes G, Ab, Bb, C, D, Eb, F, G; the second measure contains G, Ab, Bb, C, D, Eb, F, G; and the third measure contains G, Ab, Bb, C, D, Eb, F, G. The key signature has one flat (Eb).

106 D Harmonic Minor

This musical staff shows the D Harmonic Minor scale in bass clef. It consists of three measures: the first measure contains the notes D, Eb, F, G, Ab, Bb, C, D; the second measure contains D, Eb, F, G, Ab, Bb, C, D; and the third measure contains D, Eb, F, G, Ab, Bb, C, D. The key signature has one flat (Eb).

## Melodic Minor Scales

(6th + 7th scale degrees raised from Natural Minor on ascending. Natural minor on descending.)

109

### A Melodic Minor



112

### E Melodic Minor



115

### B Melodic Minor



118

### F# Melodic Minor



121

### C# Melodic Minor



124

### G# Melodic Minor



127 Eb Melodic Minor

This musical staff shows the Eb Melodic Minor scale in bass clef. It begins with a key signature of three flats (Bb, Eb, Ab) and a common time signature. The scale is written in a single line, starting on Eb and ascending to Eb. The notes are Eb, F, G, Ab, Bb, C, D, Eb. The first four measures contain the ascending scale, and the last measure contains the descending scale. The piece concludes with a double bar line and a repeat sign.

130 Bb Melodic Minor

This musical staff shows the Bb Melodic Minor scale in bass clef. It begins with a key signature of two flats (Bb, Eb) and a common time signature. The scale is written in a single line, starting on Bb and ascending to Bb. The notes are Bb, C, D, Eb, F, G, Ab, Bb. The first four measures contain the ascending scale, and the last measure contains the descending scale. The piece concludes with a double bar line and a repeat sign.

133 F Melodic Minor

This musical staff shows the F Melodic Minor scale in bass clef. It begins with a key signature of two flats (Bb, Eb) and a common time signature. The scale is written in a single line, starting on F and ascending to F. The notes are F, G, Ab, Bb, C, D, Eb, F. The first four measures contain the ascending scale, and the last measure contains the descending scale. The piece concludes with a double bar line and a repeat sign.

136 C Melodic Minor

This musical staff shows the C Melodic Minor scale in bass clef. It begins with a key signature of one flat (Bb) and a common time signature. The scale is written in a single line, starting on C and ascending to C. The notes are C, D, Eb, F, G, Ab, Bb, C. The first four measures contain the ascending scale, and the last measure contains the descending scale. The piece concludes with a double bar line and a repeat sign.

139 G Melodic Minor

This musical staff shows the G Melodic Minor scale in bass clef. It begins with a key signature of one flat (Bb) and a common time signature. The scale is written in a single line, starting on G and ascending to G. The notes are G, Ab, Bb, C, D, Eb, F, G. The first four measures contain the ascending scale, and the last measure contains the descending scale. The piece concludes with a double bar line and a repeat sign.

142 D Melodic Minor

This musical staff shows the D Melodic Minor scale in bass clef. It begins with a key signature of one flat (Bb) and a common time signature. The scale is written in a single line, starting on D and ascending to D. The notes are D, Eb, F, G, Ab, Bb, C, D. The first four measures contain the ascending scale, and the last measure contains the descending scale. The piece concludes with a double bar line and a repeat sign.



## Chromatic Scales

Aside from developing familiarity with playing this scale, chromatic scales are a useful tool for developing high and low range, and maintaining a consistently great tone through a phrase crossing a wide range.

You may alter the range of this scale, or other aspects described on the first page as you see fit. If practicing to expand your range, begin by playing these scales all slurred.

145 F to F, two octaves



149



152 Bb to Bb, two octaves



156



### Other Scale Patterns

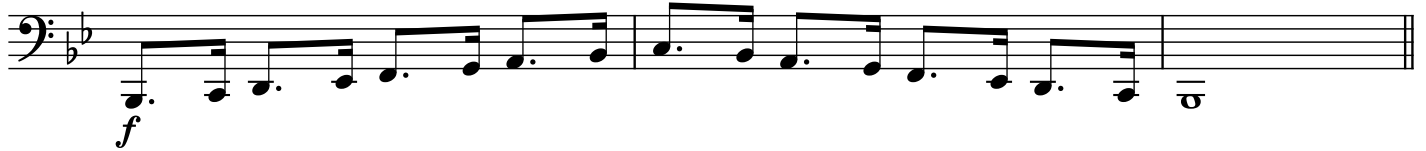
Apply different key signatures to the following scale patterns. Play these scales as if they were part of a song.

159 *Sostenuto*



The following two rhythms can challenge valve dexterity.

167 *Marcato*



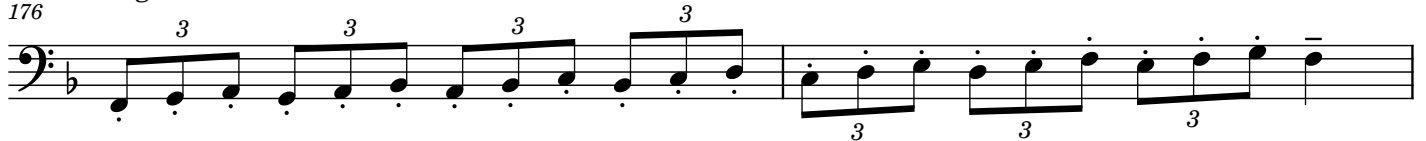
170 *Flip the rhythm around!*



173 *Smoothly*



176 *Light and clear*



178

