

# GTHM TECHNICAL STUDIES 1

A SCALE FORM WORKS IN EVERY MODES YOU NEED TO KNOW

## BASIC MAJOR SCALE FORM IN C, ROOT ON 5TH STRING ON GUITAR

GUITAR

4/4

T  
A  
B

2 3 5 7 9 10 12 14

C IONIAN

GTR.

3 5 7 9 11 13 15 17

D DORIAN

GTR.

5 7 9 11 13 15 17 19

E PHRYGIAN

GTR.

2 4 6 8 10 12 14 16

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F LYDIAN

GTR.

The diagram shows the F Lydian scale on a guitar. The top staff is a treble clef with a G-clef. The notes are: F4 (open), G4 (open), A4 (open), B4 (open), C5 (open), D5 (open), E5 (open), F5 (open), G5 (1), A5 (2), B5 (3), C6 (4). The bottom staff shows the fret numbers: 3, 5, 7, 4, 5, 7, 5, 6, 8, 10, 7, 8, 10, 12.

G MIXO-LYDIAN

GTR.

The diagram shows the G Mixolydian scale on a guitar. The top staff is a treble clef with a G-clef. The notes are: G4 (open), A4 (open), B4 (open), C5 (open), D5 (open), E5 (open), F5 (open), G5 (1), A5 (2), B5 (3), C6 (4), D6 (5). The bottom staff shows the fret numbers: 5, 7, 4, 5, 7, 5, 6, 8, 10, 7, 8, 10, 12, 13.

A AEOLIAN

GTR.

The diagram shows the A Aeolian scale on a guitar. The top staff is a treble clef with a G-clef. The notes are: A4 (open), B4 (open), C5 (open), D5 (open), E5 (open), F5 (open), G5 (1), A5 (2), B5 (3), C6 (4), D6 (5), E6 (6). The bottom staff shows the fret numbers: 5, 2, 3, 5, 2, 3, 5, 7, 4, 5, 7, 5, 6, 8.

B LOCRIAN

GTR.

The diagram shows the B Locrian scale on a guitar. The top staff is a treble clef with a G-clef. The notes are: B4 (open), C5 (open), D5 (open), E5 (open), F5 (open), G5 (1), A5 (2), B5 (3), C6 (4), D6 (5), E6 (6), F6 (7). The bottom staff shows the fret numbers: 2, 3, 5, 2, 3, 5, 7, 4, 5, 7, 5, 6, 8, 10.

BASIC MAJOR SCALE FORM IN G, ROOT ON 6TH STRING ON GUITAR

GTR.

2 3 5 2 3 5 7 4 5 7 4 5 7 9

G IONIAN

GTR.

3 5 2 3 5 7 4 5 7 4 5 7 9 7

A DORIAN

GTR.

5 2 3 5 7 4 5 7 4 5 7 9 7 8

B PHRYGIAN

GTR.

2 3 5 7 4 5 7 4 5 7 9 7 8 10

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C LYDIAN

GTR.

The diagram shows the C Lydian scale on a guitar. The top staff is a treble clef with a key signature of one sharp (F#). The notes are C4, D4, E4, F#4, G4, A4, B4, C5. The bottom staff shows the fretting: 3, 5, 7, 4, 5, 7, 4, 5, 7, 9, 7, 8, 10, 7.

D MIXO-LYDIAN

GTR.

The diagram shows the D Mixolydian scale on a guitar. The top staff is a treble clef with a key signature of two sharps (F#, C#). The notes are D4, E4, F#4, G4, A4, B4, C#5, D5. The bottom staff shows the fretting: 5, 7, 4, 5, 7, 9, 5, 7, 9, 7, 8, 10, 7, 8.

E AEOLIAN

GTR.

The diagram shows the E Aeolian scale on a guitar. The top staff is a treble clef with a key signature of three sharps (F#, C#, G#). The notes are E4, F#4, G#4, A4, B4, C#5, D5, E5. The bottom staff shows the fretting: 7, 4, 5, 7, 9, 5, 7, 9, 7, 8, 10, 7, 8, 10.

F# LOCRIAN

GTR.

The diagram shows the F# Locrian scale on a guitar. The top staff is a treble clef with a key signature of three sharps (F#, C#, G#). The notes are F#4, G#4, A4, B4, C#5, D5, E5, F#5. The bottom staff shows the fretting: 2, 3, 5, 2, 3, 5, 7, 4, 5, 7, 4, 5, 7, 9.

BASIC HARMONIC MINOR SCALE FORM IN C, ROOT ON 5TH STRING ON GUITAR

GTR.

2 3 5 6 3 5 6 4 5 7 8 6 8 9

C HARMONIC MINOR (=C AEOLIAN  $\flat 7$ )

GTR.

3 5 6 3 5 6 4 5 7 8 6 8 9 7

D LOCRIAN  $\flat 6$

GTR.

5 6 3 5 6 4 5 7 8 6 8 9 7 8

E $\flat$  IONIAN #5

GTR.

6 3 5 6 4 5 7 8 6 8 9 7 8 10

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F DORIAN #4

GTR.

Musical notation for the F Dorian #4 scale. The scale is written on a treble clef staff with a key signature of one flat (Bb) and a 4/4 time signature. The notes are: F, G, Ab, Bb, C, D, Eb, F. The fretboard diagram below shows the scale starting on the 3rd fret of the low E string, with fingerings: 3, 5, 6, 4, 5, 7, 8, 6, 8, 9, 7, 8, 10, 11.

G PHRYGIAN #3

GTR.

Musical notation for the G Phrygian #3 scale. The scale is written on a treble clef staff with a key signature of one flat (Bb) and a 4/4 time signature. The notes are: G, Ab, Bb, C, D, Eb, F, G. The fretboard diagram below shows the scale starting on the 3rd fret of the low E string, with fingerings: 3, 4, 2, 3, 5, 6, 3, 5, 6, 4, 5, 7, 8, 6.

Ab LYDIAN #2

GTR.

Musical notation for the Ab Lydian #2 scale. The scale is written on a treble clef staff with a key signature of two flats (Bb, Eb) and a 4/4 time signature. The notes are: Ab, Bb, C, D, Eb, F, G, Ab. The fretboard diagram below shows the scale starting on the 4th fret of the low E string, with fingerings: 4, 2, 3, 5, 6, 3, 5, 6, 4, 5, 7, 8, 6, 8.

B LOCRIAN b4 b7

GTR.

Musical notation for the B Locrian b4 b7 scale. The scale is written on a treble clef staff with a key signature of two flats (Bb, Eb) and a 4/4 time signature. The notes are: Bb, C, D, Eb, F, G, Ab, Bb. The fretboard diagram below shows the scale starting on the 2nd fret of the low E string, with fingerings: 2, 3, 5, 6, 3, 5, 6, 4, 5, 7, 8, 6, 8, 9.

BASIC HARMONIC MINOR SCALE FORM IN A, ROOT ON 6TH STRING ON GUITAR

GTR.

4 5 7 8 5 7 8 6 7 9 5 3 5 6

A HARMONIC MINOR (=A AEOLIAN  $\frac{4}{7}$ )

GTR.

5 7 8 5 7 8 6 7 9 10 7 9 10 9

B LOCRIAN  $\frac{4}{6}$

GTR.

7 8 5 7 8 6 7 9 10 7 9 10 9 10

C IONIAN #5

GTR.

8 5 7 8 6 7 9 10 7 9 10 9 10 12

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D DORIAN #4

GTR.

5 7 8 6 7 9 10 7 9 10 9 10 12 13

Detailed description: This block shows the D Dorian #4 scale on a guitar. The top staff is a treble clef with a key signature of one sharp (F#). The scale is written as a sequence of eighth notes: D4, E4, F#4, G4, A4, B4, C5, D5, E5, F#5, G5, A5, B5, C6. The bottom staff shows the fret numbers for each note: 5, 7, 8, 6, 7, 9, 10, 7, 9, 10, 9, 10, 12, 13.

E PHRYGIAN b3

GTR.

7 8 6 7 9 10 7 9 10 9 10 12 13 10

Detailed description: This block shows the E Phrygian b3 scale on a guitar. The top staff is a treble clef with a key signature of one sharp (F#). The scale is written as a sequence of eighth notes: E4, F#4, G4, A4, B4, C5, D5, E5, F#5, G5, A5, B5, C6, D6. The bottom staff shows the fret numbers for each note: 7, 8, 6, 7, 9, 10, 7, 9, 10, 9, 10, 12, 13, 10.

F LYDIAN #2

GTR.

1 4 5 7 8 5 7 8 6 7 9 10 7 9

Detailed description: This block shows the F Lydian #2 scale on a guitar. The top staff is a treble clef with a key signature of two sharps (F# and C#). The scale is written as a sequence of eighth notes: F4, G4, A4, B4, C#5, D5, E5, F#5, G5, A5, B5, C6, D6, E6. The bottom staff shows the fret numbers for each note: 1, 4, 5, 7, 8, 5, 7, 8, 6, 7, 9, 10, 7, 9.

G# LOCRIAN b4 b7

GTR.

4 5 2 3 5 2 3 1 2 4 1 3 5 1

Detailed description: This block shows the G# Locrian b4 b7 scale on a guitar. The top staff is a treble clef with a key signature of two sharps (F# and C#). The scale is written as a sequence of eighth notes: G#4, A4, B4, C5, D5, E5, F#5, G#5, A5, B5, C6, D6, E6, F#6. The bottom staff shows the fret numbers for each note: 4, 5, 2, 3, 5, 2, 3, 1, 2, 4, 1, 3, 5, 1.



BASIC MELODIC MINOR FORM IN C, ROOT ON 5TH STRING ON GUITAR

GTR.

2 3 5 6 3 5 7 4 5 7 8 6 8 10

C MELODIC MINOR (=C AEOLIAN  $\flat 6 \flat 7$ )

GTR.

3 5 6 3 5 7 4 5 7 8 6 8 10 7

D LOCRIAN  $\flat 5 \flat 6$  (=B DORIAN  $\flat 2$ )

GTR.

5 6 3 5 7 4 5 7 8 6 8 10 7 8

E $\flat$  IONIAN  $\sharp 4 \sharp 5$  (=C LYDIAN  $\sharp 5$ )

GTR.

6 3 5 7 4 5 7 8 6 8 10 7 8 10

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F DORIAN  $\frac{4}{4}$  #11 (=D LYDIAN  $\flat 7$ )

GTR.

Musical notation for the F Dorian scale in 4/4 time. The scale is written on a treble clef staff with a key signature of one flat (Bb). The notes are F, G, A, Bb, C, D, E, F. The scale is written as a single line of music with a double bar line at the end. Below the staff is a guitar fretboard diagram showing the fingerings for each note: F (3), G (5), A (7), Bb (4), C (5), D (7), E (8), F (6), G (8), A (10), Bb (7), C (8), D (10), E (11).

G PHRYGIAN  $\frac{4}{4}$   $\flat 2$   $\flat 3$  (E MIXO-LYDIAN  $\flat 6$ )

GTR.

Musical notation for the G Phrygian scale in 4/4 time. The scale is written on a treble clef staff with a key signature of two flats (Bb, Eb). The notes are G, Ab, Bb, C, D, Eb, F, G. The scale is written as a single line of music with a double bar line at the end. Below the staff is a guitar fretboard diagram showing the fingerings for each note: G (3), Ab (5), Bb (2), C (3), D (5), Eb (6), F (3), G (5), Ab (7), Bb (4), C (5), D (7), Eb (8), F (6).

A AEOLIAN  $\flat 5$  (=LOCRIAN #2)

GTR.

Musical notation for the A Aeolian scale in 4/4 time. The scale is written on a treble clef staff with a key signature of two flats (Bb, Eb). The notes are A, Bb, C, D, Eb, F, G, A. The scale is written as a single line of music with a double bar line at the end. Below the staff is a guitar fretboard diagram showing the fingerings for each note: A (5), Bb (2), C (3), D (5), Eb (6), F (3), G (5), Ab (7), Bb (4), C (5), D (7), Eb (8), F (6), G (8).

B ALTERED SCALE (=SUPER LOCRIAN)

GTR.

Musical notation for the B Altered Scale in 4/4 time. The scale is written on a treble clef staff with a key signature of two flats (Bb, Eb). The notes are B, C, D, Eb, F, G, Ab, B. The scale is written as a single line of music with a double bar line at the end. Below the staff is a guitar fretboard diagram showing the fingerings for each note: B (2), C (3), D (5), Eb (6), F (3), G (5), Ab (2), B (4), C (6), D (3), Eb (4), F (6), G (5).

BASIC MELODIC MINOR FORM IN A, ROOT ON 6TH STRING ON GUITAR

GTR.

4 5 7 8 5 7 9 6 7 9 10 7 9 11

A MELODIC MINOR (=A AEOLIAN  $\flat 6$   $\flat 7$ )

GTR.

5 7 8 5 7 9 6 7 9 10 7 9 11 9

B LOCRIAN  $\flat 5$   $\flat 6$  (=B DORIAN  $\flat 2$ )

GTR.

7 8 5 7 9 6 7 9 10 7 9 11 9 10

C IONIAN #4 #5 (=C LYDIAN #5)

GTR.

8 5 7 9 6 7 9 10 7 9 11 9 10 12

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D DORIAN  $\flat 3 \#11$  (=D LYDIAN  $\flat 7$ )

GTR.

Musical notation for the D Dorian scale. The top staff shows the scale in treble clef with notes D, E, F#, G, A, B, C, D, E, F#, G, A, B, C, D. The bottom staff shows the fret positions: 5, 7, 9, 6, 7, 9, 10, 7, 9, 11, 9, 10, 12, 13.

E PHRYGIAN  $\flat 2 \flat 3$  (E MIXO-LYDIAN  $\flat 6$ )

GTR.

Musical notation for the E Phrygian scale. The top staff shows the scale in treble clef with notes E, F, G, A, B, C, D, E, F, G, A, B, C, D, E. The bottom staff shows the fret positions: 7, 9, 6, 7, 9, 10, 7, 9, 11, 9, 10, 12, 13, 10.

F# AEOLIAN  $\flat 5$  (=LOCRIAN  $\#2$ )

GTR.

Musical notation for the F# Aeolian scale. The top staff shows the scale in treble clef with notes F#, G, A, B, C, D, E, F#, G, A, B, C, D, E, F#. The bottom staff shows the fret positions: 9, 6, 7, 9, 10, 7, 9, 11, 9, 10, 12, 13, 10, 12.

G# ALTERED SCALE (=SUPER LOCRIAN)

GTR.

Musical notation for the G# Altered Scale. The top staff shows the scale in treble clef with notes G#, A, B, C, D, E, F#, G#, A, B, C, D, E, F#. The bottom staff shows the fret positions: 4, 5, 2, 3, 5, 2, 4, 6, 2, 4, 5, 3, 5, 2.