



iDoubleBass

Scale Studies Book I

Beginner to Intermediate

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Tip: Practice every day for best results.

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Part I

One Octave Scale Studies

Positions 1/2 through III 1/2

1/2 Position

F Major

Musical staff for F Major, measures 1-6. The staff is in bass clef with a key signature of one flat (Bb) and a 4/4 time signature. The notes are: G2, A2, Bb2, C3, D3, E3, F3, G3, A3, Bb3, C4, D4. Fingering numbers are: 1, 4, 0, 1, 4, 0, 2, 4, 2, 0, 4, 1.

7

Musical staff for F Major, measures 7-12. The staff is in bass clef with a key signature of one flat (Bb) and a 4/4 time signature. The notes are: G2, A2, Bb2, C3, D3, E3, F3, G3, A3, Bb3, C4, D4. Fingering numbers are: 0, 4, 1, 1, 0, 4, 4, 4, 0, 1.

13 Bb Major

Musical staff for Bb Major, measures 13-18. The staff is in bass clef with a key signature of two flats (Bb, Eb) and a 4/4 time signature. The notes are: G2, A2, Bb2, C3, D3, Eb3, F3, G3, Ab3, Bb3, C4, D4. Fingering numbers are: 1, 4, 0, 1, 4, 0, 2, 4, 2, 0, 4, 1.

19

Musical staff for Bb Major, measures 19-24. The staff is in bass clef with a key signature of two flats (Bb, Eb) and a 4/4 time signature. The notes are: G2, A2, Bb2, C3, D3, Eb3, F3, G3, Ab3, Bb3, C4, D4. Fingering numbers are: 0, 4, 1, 1, 0, 4, 4, 4, 0, 1.

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I Position

G Major

2 0 1 2 0 1 4 0 4 1 0 2

7

1 0 2 2 1 0 0 0 1 2

13 G Melodic Minor

$\frac{1}{2}$ 4 0 1 4 0 I 1 4 0 $\frac{1}{2}$ 4 1 0 4

19

1 0 4 $\frac{1}{2}$ 4 1 0 0 0 1 4

25 A Major

I 0 1 4 0 1 4 $\frac{1}{2}$ 1 2 1 I 4 1 0

31

4 1 0 0 4 1 1 1 4 0

37 A Melodic Minor

I 0 1 2 0 1 4 $\frac{1}{2}$ 1 2 0 I 2 1 0

43

2 1 0 0 2 1 1 1 2 0

49 E Major

I 0 1 4 0 1 4 $\frac{1}{2}$ 1 2 1 I 4 1 0

I Position

55

4 1 0 0 4 1 1 1 4 0

61 E Melodic Minor

I 0 1 2 0 1 4 1/2 1 2 0 2 1 0

67

2 1 0 0 2 1 1 1 2 0

73 B Major

I 1 4 1/2 1 1 4 1/2 I 1 2 4 2 1 4 1

79

1/2 1 4 1 1/2 2 1 4 4 4 1/2 1 2

85 B Melodic Minor

I 1 4 0 1 4 1/2 1 2 4 1 0 4 1

91

0 4 1 1 0 4 4 4 0 1

II Position

G Major

Measures 1-6 of G Major in 4/4 time. The bass clef has a key signature of one sharp (F#). The notes are: G2 (I), A2 (2), B2 (0), C3 (1), D3 (2), E3 (0), F#3 (1), G3 (2), A3 (4), B3 (2), C4 (1), D4 (0), E4 (2).

7

Measures 7-12 of G Major in 4/4 time. The notes are: F#3 (1), G3 (0), A3 (2), B3 (2), C4 (1), D4 (4), E4 (4), F#4 (4), G4 (1), A4 (2).

13 G Melodic Minor

Measures 13-18 of G Melodic Minor in 4/4 time. The key signature changes to two flats (Bb, Eb). The notes are: G2 (1/2), A2 (4), B2 (0), C3 (1), D3 (4), E3 (0), F#3 (2), G3 (II), A3 (2), B3 (4), C4 (1), D4 (1/2), E4 (1), F#4 (0), G4 (4).

19

Measures 19-24 of G Melodic Minor in 4/4 time. The notes are: G2 (1), A2 (0), B2 (4), C3 (1/2), D3 (4), E3 (1), F#3 (II), G3 (4), A3 (4), B3 (4), C4 (1/2), D4 (1), E4 (4).

25 C Major

Measures 25-30 of C Major in 4/4 time. The key signature is natural (no sharps or flats). The notes are: C2 (I), D2 (2), E2 (0), F2 (1), G2 (2), A2 (0), B2 (1), C3 (II), D3 (2), E3 (4), F3 (2), G3 (I), A3 (1), B3 (0), C4 (2).

31

Measures 31-36 of C Major in 4/4 time. The notes are: C2 (1), D2 (0), E2 (2), F2 (2), G2 (1), A2 (4), B2 (4), C3 (4), D3 (1), E3 (2).

37 C Melodic Minor

Measures 37-42 of C Melodic Minor in 4/4 time. The key signature changes to three flats (Bb, Eb, Ab). The notes are: C2 (1/2), D2 (4), E2 (0), F2 (1), G2 (4), A2 (0), Bb2 (2), C3 (II), D3 (2), Eb3 (4), F3 (1), G3 (1/2), Ab3 (1), Bb3 (0), C4 (4).

43

Measures 43-48 of C Melodic Minor in 4/4 time. The notes are: C2 (1), D2 (0), E2 (4), F2 (1/2), G2 (4), Ab2 (1), Bb2 (II), C3 (4), D3 (4), Eb3 (4), F3 (1/2), G3 (1), Ab3 (4).

II 1/2 Position

A \flat Major

First musical staff for A \flat Major, measures 1-6. The staff is in bass clef with a key signature of three flats and a 4/4 time signature. The notes are: G \flat (I), F \flat (1/2), E \flat (I), D \flat (2), C \flat (4), B \flat (1/2), A \flat (1), G \flat (4), F \flat (II 1/2), E \flat (2), D \flat (4), C \flat (2), B \flat (1/2), A \flat (1), G \flat (I), F \flat (4).

7

Second musical staff for A \flat Major, measures 7-12. The staff is in bass clef with a key signature of three flats and a 4/4 time signature. The notes are: G \flat (2), F \flat (1/2), E \flat (I), D \flat (4), C \flat (4), B \flat (I), A \flat (II 1/2), G \flat (4), F \flat (4), E \flat (I), D \flat (2), C \flat (4).

13 D \flat Major

Third musical staff for D \flat Major, measures 13-18. The staff is in bass clef with a key signature of four flats and a 4/4 time signature. The notes are: C \flat (I), B \flat (1/2), A \flat (I), G \flat (2), F \flat (4), E \flat (1/2), D \flat (1), C \flat (4), B \flat (II 1/2), A \flat (2), G \flat (4), F \flat (2), E \flat (1/2), D \flat (1), C \flat (I), B \flat (4).

19

Fourth musical staff for D \flat Major, measures 19-24. The staff is in bass clef with a key signature of four flats and a 4/4 time signature. The notes are: C \flat (2), B \flat (1/2), A \flat (I), G \flat (4), F \flat (4), E \flat (I), D \flat (II 1/2), C \flat (4), B \flat (4), A \flat (4), G \flat (I), F \flat (2), E \flat (4).

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III Position

D Major

Musical notation for D Major, measures 1-6. The key signature has two sharps (F# and C#) and the time signature is 4/4. The notes are D2, E2, F#2, G2, A2, B2, C#3, D3. Fingering: I 0 1 4 0 1 4 III 2 4 2 I 4 1 0

7

Musical notation for D Major, measures 7-12. The notes are D3, E3, F#3, G3, A3, B3, C#4, D4. Fingering: 4 1 0 0 4 1 III 4 I 1 4 0

13 D Melodic Minor

Musical notation for D Melodic Minor, measures 13-18. The key signature has one flat (Bb) and the time signature is 4/4. The notes are D2, E2, F2, G2, A2, Bb2, C#3, D3. Fingering: I 0 1 2 0 1 4 III 2 4 1 2 I 1 0

19

Musical notation for D Melodic Minor, measures 19-24. The notes are D3, E3, F2, G2, A2, Bb2, C#3, D3. Fingering: 2 1 0 0 2 1 III 4 I 1 2 0

25 A Major

Musical notation for A Major, measures 25-30. The key signature has three sharps (F#, C#, G#) and the time signature is 4/4. The notes are A2, B2, C#3, D3, E3, F#3, G#3, A3. Fingering: I 0 1 4 0 1 4 III 2 4 2 I 4 1 0

31

Musical notation for A Major, measures 31-36. The notes are A3, B3, C#4, D4, E4, F#4, G#4, A4. Fingering: 4 1 0 0 4 1 III 4 I 1 4 0

37 A Melodic Minor

Musical notation for A Melodic Minor, measures 37-42. The key signature has three sharps (F#, C#, G#) and the time signature is 4/4. The notes are A2, B2, C#3, D3, E3, F#3, G#3, A3. Fingering: I 0 1 2 0 1 4 III 2 4 1 2 I 1 0

43

Musical notation for A Melodic Minor, measures 43-48. The notes are A3, B3, C#4, D4, E4, F#4, G#4, A4. Fingering: 2 1 0 0 2 1 III 4 I 1 2 0

49 E Major

Musical notation for E Major, measures 49-54. The key signature has four sharps (F#, C#, G#, D#) and the time signature is 4/4. The notes are E2, F#2, G#2, A2, B2, C#3, D#3, E3. Fingering: I 0 1 4 0 1 4 III 2 4 2 I 4 1 0

III Position

55

4 1 0 0 4 1 4 1 4 0

61 E Melodic Minor

I 0 1 2 0 1 4 III 2 4 I 1 2 1 0

67

2 1 0 0 2 1 III 4 I 1 2 0

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III 1/2 Position

F Major

1/2 1 4 0 1 II 1 4 III 1/2 2 4 2 II 4 1 1

7

0 4 1 1/2 1 0 4 4 4 0 1

13 F Melodic Minor

1/2 1 4 II 1/2 1 4 II 1 4 III 1/2 2 4 1 I 4 2 1/2 1

19

4 2 1 1/2 1 4 2 2 2 4 1/2 1

25 B \flat Major

1/2 1 4 0 1 II 1 4 III 1/2 2 4 2 II 4 1 1/2 1

31

0 4 1 1 0 4 4 4 0 1

37 E \flat Major

1/2 1 4 0 1 II 1 4 III 1/2 2 4 2 II 4 1 1/2 1

43

1 4 1 1 0 4 III 1/2 4 1/2 4 0 1

Tip: Start each practice session with long tone scales.

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Part II

Two Octave Scale Studies

Positions IV through VII

IV Position

E Major

E Major

1 0 1 4 0 1 4 1/2 | I 1 4 2 4 1

7

G 4 IV 4 2 4 2 III 1/2 4 1 III 4 2 I 4 1 1/2 I 4

13

1 0 4 1 0 0 4 1 1 III 1/2 4 1

19

IV 4 III 1/2 1 4 I 1 1 4 0 0 4 1 4 1 1

25

III 1/2 1 1 1 2 1 IV 4 III 1/2 1 4 4 4 4 III 1/2 1 4 IV 4 III 1/2 1 2 1 1 1

31

1 1 4 1 4 0 0 0 4 1 1 4 1

37

III 1/2 2 1 2 2 1 IV 4 III 1/2 2 1 IV 4 4 4 4

43

III 1/2 1 2 IV 4 III 1/2 1 2 2 1 2 I 1 4 0

IV Position

E minor

E Melodic Minor

Measures 1-6 of E Melodic Minor in bass clef, 3/4 time. The notes are G2, A2, B2, C3, D3, E3, F#3, G3, A3, B3, C4, D4, E4. Fingering: 0, 1, 2, 0, 1, 4, 1/2, 1, 1, 4, III, 1, 4, III 1/2.

Measures 7-12 of E Melodic Minor in bass clef, 3/4 time. The notes are F#3, G3, A3, B3, C4, D4, E4, D4, C4, B3, A3, G3, F#3. Fingering: 4, IV, 2, 4, 1, III 1/2, 2, 1, III, 4, 1, I, 4, 1, 0, 2.

Measures 13-18 of E Natural Minor in bass clef, 3/4 time. The notes are G2, A2, B2, C3, D3, E3, F3, G3, A3, B3, C4, D4, E4. Fingering: 1, 0, 2, 1, 0, 0, 1, 2, 0, 1, 2.

Measures 19-24 of E Natural Minor in bass clef, 3/4 time. The notes are G2, A2, B2, C3, D3, E3, F3, G3, A3, B3, C4, D4, E4. Fingering: 0, 1, 4, 0, 1, II, 2, 4, IV, 1, 4, 1, II, 4, 2.

Measures 25-30 of E Natural Minor in bass clef, 3/4 time. The notes are G2, A2, B2, C3, D3, E3, F3, G3, A3, B3, C4, D4, E4. Fingering: I, 1, 0, 4, 1, 0, 2, 1, 0, 2, 1, 0.

Measures 31-36 of E Harmonic Minor in bass clef, 3/4 time. The notes are G2, A2, B2, C3, D3, E3, F#3, G3, A3, B3, C4, D4, E4. Fingering: 1/2, 0, 2, 4, 0, 2, 4, 1, I, 1, 4, 0, 1, II, 2.

Measures 37-42 of E Harmonic Minor in bass clef, 3/4 time. The notes are F#3, G3, A3, B3, C4, D4, E4, D4, C4, B3, A3, G3, F#3. Fingering: 4, IV, 2, 4, 2, II, 4, 2, I, 1, 0, 2, 1, 1/2, 1, 4.

Measures 43-48 of E Harmonic Minor in bass clef, 3/4 time. The notes are G2, A2, B2, C3, D3, E3, F3, G3, A3, B3, C4, D4, E4. Fingering: 2, 0, 4, 2, 0, I, 0, 2, 1, 1, II, 4, 2.

IV Position: E Minor

49

IV 4 2 4 I 1 1 2 0 0 2 1 2 1 1

55

1 1 4 I 1 4 2 4 2 4 4 2 4 2 4 I 1 4 I 1

61

1 1 2 1 2 0 0 0 2 1 1 2 1

67

1 4 I 1 1 4 2 I 1 4 2 4 4 2

73

4 I 1 2 4 I 1 1 4 I 1 1 2 0

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V Position

F Major

F Major

1/2 1 4 0 1 4 0 2 4 0 2 4 III 1

7 4 2 4 2 III 4 1 1/2 4 2 0 4 2 0

13 4 1 0 4 1 1/2 1 0 4 4 III 4 1

19 V III 4 1/2 4 4 0 1 1 0 4 0 4 4

25 4 4 2 4 2 III 4 1 V 4 4 III 4 1 1/2 4 2 4 4

31 4 4 0 4 0 1 1 1 0 4 4 0 2

37 2 1 2 2 1 II 4 1 III 4 1 V 4 4 III 1

43 4 II 4 I 1 2 2 1 2 2 0 1/2 1

Tip: After long tone scales, practice your scales with different bowing variations.

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V Position

F Minor

F Melodic Minor

1/2 1 I 2 4 1/2 4 0 2 4 0 1 4 III 1

7

4 V 4 1 III 1/2 1/2 1 0 4 1 I 4

13

Natural Minor

2 1/2 I 4 2 1/2 1 1 I 2 4 1/2 4 II 1/2 1

19

4 II 1 4 III 1/2 4 III 1 2 V 1 4 1 III 2 1

25

III 1/2 1 II 4 1 II 1/2 4 1 1/2 1 I 4 2 1/2 1

31

Harmonic Minor

1/2 1 I 2 4 1/2 1 2 4 1 2 0 1/2 1 4 II 1/2 2

37

4 V 4 2 II 1/2 2 1/2 1 0 I 2 1 I 4

43

2 1/2 1 I 4 2 1/2 1 1 I 4 2 2 III 2 1

V Position: F Minor

49

V 4 III 1 2 I 2 2 4 1/2 1 1 I 4 2 4 2 2

55

2 2 II 1/2 4 II 1 4 2 4 2 V 4 4 II 1/2 2 4 2 4 II 1 II 1/2 4 I 2 2

61

2 2 4 2 4 1/2 1 1 1 I 4 2 2 4 2

67

2 II 1/2 4 II 1 1 II 1/2 4 2 II 1 II 1/2 4 2 V 4 4 II 1/2 2

73

4 II 1 II 1/2 2 4 II 1 1 II 1/2 4 I 2 2 4 1/2 1

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V 1/2 Position

G \flat Major

G \flat Major

1 I 1 4 1/2 I 1 4 1/2 II 1/2 IV III 1/2
4 2 4 2 4 1 4 2 II 1/2 1/2 4 1

7 V 1/2 III 1/2 IV II 1/2 1/2 4 1

13 I 1/2 I 1/2 1/2 I II 1/2
4 1 1 4 1 2 1 4 4 2 4

19 V 1/2 II 1/2 I 1/2 I 1/2 I 1/2 I
4 4 2 4 4 1 2 2 1 4 1 4 4

25 III 1/2 V 1/2 III 1/2 I
4 4 2 4 2 1 4 1 4 4 1 4 2 4 4 4

31 1/2 I 1/2 2 2 2 1 4 4 1/2 I
4 4 1 4 1 2 2 2 1 4 4 1 4

37 II 1/2 III 1/2 V 1/2 III 1/2
4 2 4 4 2 4 1 4 1 4 4 1

43 II 1/2 I 1/2 I 1/2 I
4 1 4 2 4 4 4 1 2

V 1/2 Position

F# Major

F# Major

1 1 4 1/2 I 1 4 1/2 II 1/2 IV III 1/2
4 2 4 2 III 1/2 IV II 1/2 1/2
4 1 1/2 I 4 1 1/2 2 1 I 4 4 2 II 1/2
4 4 V 1/2 II 1/2 I 4 4 1/2 2 2 1 I 1/2 I 4 4
4 4 2 4 2 III 1/2 V 1/2 III 1/2 I 2 4 2 4 4
4 4 1/2 I 1/2 1 2 2 2 1 I 4 4 1/2 I
4 2 4 4 2 II 1/2 III 1/2 V 1/2 III 1/2
4 II 1/2 I 4 4 1/2 2

V 1/2 Position

F# Minor

F# Melodic Minor

7

I 1 4 0 1 4 1/2 1 4 II 1/2 4 IV 1 4 III 1/2 1

7

4 V 1/2 4 1 III 1/2 IV II 1/2 III 4 1

13

Natural Minor

I 4 1 0 4 1 1 4 0 1 4 III 1

19

4 II 1/2 4 IV 4 III 1/2 V 1/2 4 1 III 1/2 2 1

25

IV 4 1 II 1/2 4 1 III 4 1 I 4 1 0 4 1

31

Harmonic Minor

1 4 0 1 4 0 2 4 1/2 1 1 4 III 2

37

4 V 1/2 4 2 III 4 2 I 4 1 1/2 I 4 2 0

43

4 1 0 4 1 1 0 4 4 1 II 1/2 4

V 1/2 Position: F# Minor

49

V 1/2 4 II 1/2 4 I 1 4 4 0 1 1 0 4 0 4 4

55

4 4 1 4 1 III 2 4 2 V1/2 4 4 2 III 4 2 4 2 ! 1 4 1 4 4

61

4 4 0 4 0 1 1 1 0 4 4 0 4

67

4 1 4 4 1 II 1/2 4 1 III 4 2 V 1/2 4 4 III 4 2

73

4 II 1/2 1 4 I 1 4 4 1 4 4 0 1

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VI Position

G Major

7

2 0 1 2 0 1 4 III 4 II 1/2 2 IV 1

7

4 VI 3 2 IV 4 1 II 1/2 4 1 I 4 1

13

0 2 1 0 1 2 1 II 4 4 2 III 4

19

VI III II 4 4 I 2 2 1 II I II 4 4 3 4 2 4 4 1 2 2 1 II 4 1 II 4 4

25

4 4 2 4 2 IV 4 1 VI 3 IV 4 1 II 2 4 2 4 4

31

4 4 I II I 2 2 2 1 II 4 4 I II 4

37

4 2 4 4 2 III 4 1 IV 1 VI 3 3 IV 1

43

4 III 4 II 4 4 4 I 2 4 4 4 I 2

Tip: Keep a practice journal to track your practice.

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VI Position

G Minor

G Melodic Minor

1/2 4 0 1 4 0 I 1 4 0 1 II 1 4 IV 1

7 VI 3 1 III 1/2 2 II 1 I 0 1/2 1

13 Natural Minor 4 0 1 4 0 1 4 0 1 4 0 1

19 4 0 2 I 4 III 1/2 2 4 VI 1 3 1 III 1/2 4 2

25 II 4 1 1/2 2 0 4 1 0 4 1 0 4

31 Harmonic Minor 4 0 1 4 0 1 I 4 0 1 II 1 4 III 1/2 2

37 VI 4 2 3 2 III 1/2 4 2 II 4 1 I 1 0 4 1/2 1

43 0 4 1 0 4 4 1 II 4 4 1 III 4

VI Position: G Minor

49

VI 3 III 4 II 1 4 4 1 4 4 1 0 1 0 0

55

0 4 II 1 4 1 IV 1 2 1 VI 3 3 IV 1 2 1 II 1 4 1 4 4

61

4 0 1/2 1 0 1 4 4 4 1 0 0 1 II 4

67

4 1 4 4 1 III 4 1 IV 2 1 VI 3 3 IV 1

73

2 III 1 4 II 1 4 4 1 4 4 1/2 1 4

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VI 1/2 Position

A \flat Major

1 4 1 1 4 1 4 1 4 1 2 1

7 4 2 3 2 4 1 2 1 4 1 4 1

13 4 1 1 4 1 2 1 4 4 2 4

19 3 4 2 4 4 1 2 2 1 4 1 4 4

25 4 4 2 4 2 1 4 1 3 3 1 4 1 2 4 2 4 4

31 4 4 1 4 1 2 2 2 1 4 4 1 4

37 4 2 4 4 2 4 1 4 1 3 3 1

43 4 1 4 2 4 4 4 1 2

VII Position

A Major

A Major

0 1 4 0 1 4 1 1 4 2 4 1

7 4 2 3 2 4 1 4 2 4 1 1 1 4

13 1 0 4 1 0 0 4 1 4 2 4

19 VII IV III I 3 4 2 4 1 4 0 0 4 1 4 1 1

25 III 1/2 V 1/2 VII V 1/2 III I 1 1 1 2 1 1 4 1 3 3 1 4 1 2 4 2 1 1

31 1 1 4 1 4 0 0 0 4 1 1 4 1

37 III IV V 1/2 VII V 1/2 4 2 4 4 2 4 1 4 1 3 3 1

43 IV III I 4 1 4 2 4 4 1 4 0

Tip: Write down questions to ask your teacher at your next lesson.

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VII Position

A Minor

A Melodic Minor

0 1 2 0 1 4 1/2 1 1 4 III 4 V 1/2 1

VII 4 2 3 1 V 4 2 III 4 I 4 1 0 2

1 0 2 1 0 0 1 2 0 1 2

III 0 1 4 1 4 V 2 4 VII 1 3 1 V 4 2

III 4 1 4 1 0 2 1 0 2 1 0

1/2 0 2 4 0 2 4 1 1 4 III 1 4 V 2

VII 4 2 3 2 V 4 2 III 4 I 4 1 1 1/2 1 4

2 0 4 2 0 0 I 2 1 III 4 1 IV 4

VII Position: A Minor

49

VII 3 IV 4 III 1 4 I 1 2 0

0 2 1 2 1 1

55

III 1 4 V 1/2 1 4 VII 2 1 3 V 1/2 3 1 2 III 1 1 4

1 4 4

61

I 4 1 2 1 2 0 0

0 2 1 1 2 1

67

III 4 1 4 4 IV 1 4 V 1 4 VII 2 3 V 3 2

73

IV 4 1 III 4 1 I 4 4 1 4

I 1 2 0

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VII Position

E Major

E Major

0 1 4 0 1 4 1/2 1 1 4 2 4 1

I 1/2 I III V 1/2

4 2 3 2 4 1 4 2 4 1 1/2 1 4

VII V 1/2 III I 1/2 I

1 0 4 1 0 0 4 1 4 2 4

III IV

3 4 2 4 1 4 0 0 4 1 4 1 1

VII IV III I

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

III 1/2 V 1/2 VII V 1/2 III I

1 1 4 1 4 0 0 0 4 1 1 4 1

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

III IV V 1/2 VII V 1/2

4 1 4 2 4 4 2 4 1 4 0

IV III I

Tip: Strive for progress, not perfection.

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VII Position

E Minor

E Melodic Minor

Measures 1-6 of E Melodic Minor. The key signature has one sharp (F#) and the time signature is 4/4. The notes are: G2, A2, B2, C3, D3, E3, F#3, G3, A3, B3, C4, D4. Fingering: 1, 0, 1, 2, 0, 1, 4, 1/2, 1, 1, 4, III, 4, V, 1/2, 1.

Measures 7-12 of E Melodic Minor. The notes are: D4, E4, F#4, G4, A4, B4, C5, D5, E5, D4, C4, B3, A3, G3, F#3, E3. Fingering: VII, 4, 2, 3, 1, V, 4, 2, III, 4, I, 4, 1, 0, 2.

Measures 13-18 of E Natural Minor. The key signature has no sharps or flats. The notes are: G2, A2, B2, C3, D3, E3, F3, G3, A3, B3, C4, D4. Fingering: 1, 0, 2, 1, 0, 0, 1, 2, 0, 1, 2.

Measures 19-24 of E Natural Minor. The notes are: D4, E4, F3, G3, A3, B3, C4, D4, E4, F3, G3, A3, B3, C4, D4. Fingering: 0, 1, 4, III, 1, 4, V, 2, 4, VII, 1, 3, 1, V, 4, 2.

Measures 25-30 of E Natural Minor. The notes are: E4, D4, C4, B3, A3, G3, F3, E3, D3, C3, B2, A2, G2. Fingering: III, 4, I, 1, 4, 1, 0, 2, 1, 0, 2, 1, 0.

Measures 31-36 of E Harmonic Minor. The key signature has one sharp (F#). The notes are: G2, A2, B2, C3, D3, E3, F#3, G3, A3, B3, C4, D4. Fingering: 1/2, 0, 2, 4, 0, 2, 4, 1, I, 1, 4, III, 1, 4, V, 2.

Measures 37-42 of E Harmonic Minor. The notes are: D4, E4, F#4, G4, A4, B4, C5, D5, E5, D4, C4, B3, A3, G3, F#3, E3. Fingering: VII, 4, 2, 3, 2, V, 4, 2, III, 4, I, 4, 1, 1, 1/2, 1, 4.

Measures 43-48 of E Harmonic Minor. The notes are: G2, A2, B2, C3, D3, E3, F#3, G3, A3, B3, C4, D4. Fingering: 2, 0, 4, 2, 0, 0, I, 2, 1, III, 4, 1, IV, 4.

VII Position: E Minor

49

VII 3 IV 4 III 1 4 I 1 2 0 0 2 1 2 1 1

55

1 III 4 1 4 1 4 1 V 1/2 1 2 1 VII 3 3 V 1/2 1 2 1 III 1 4 1 4 4

61

4 I 1 2 1 2 0 0 0 2 1 1 2 1

67

III 4 1 4 4 1 IV 4 1 V 4 2 VII 3 3 V 2

73

4 IV 1 4 III 1 4 4 1 4 I 1 2 0

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Part III

Two Octave Scale Studies

Thumb Position

Thumb Position

B \flat Major

B \flat Major

1
1/2
1 4 0 1 4 0 2 II 4 III 1/2 2 4 VI 1

7
3 2 3 2 VI 3 1 III 1/2 4 2 II 4 1 1/2 2 0

13
4 1 0 4 1 1 II 4 1 IV 2 1 V 4

19
T 3 4 V IV 1 2 II 1 4 1/2 1 1 4 1 4 1 1

25
1 1 IV 1 2 1 VI 1 3 1 3 3 1 3 1 1 IV 1 2 1 1 1

31
1 1 4 1 4 1/2 1 1 II 1 4 1 1 4 1

37
IV 2 1 2 2 1 V 4 1 VI 3 1 T 3 3 VI 1

43
3 V 1 4 IV 1 2 2 1 2 2 II 1 4 1/2

Thumb Position

B \flat Minor

B \flat Melodic Minor

1/2 4 II 1/2 4 II I II III 1/2 VI
1 4 1 4 1 4 1 1 4 1 4 1

7
3 T 3 1 V 1/2 III 1/2 II II 1/2
3 2 3 1 4 2 4 1 4 1 4 1

Natural Minor

13
II II 1/2 1 1/2 1 I 1/2 4 II 1/2
1 4 1 4 1 1 2 4 1 4 1

19
4 II III 1/2 V 1/2 T 3 1 V 1/2
4 1 4 1 4 2 4 1 3 1 4 2

25
III 1/2 II II 1/2 1/2 I 1/2
4 1 4 1 4 1 4 1 4 2 1

Harmonic Minor

31
I 1/2 I II III 1/2 VI
1 2 4 1 2 4 1 1 4 1 4 1

37
3 T VI III 1/2 II I
3 2 3 2 3 1 4 1 4 1 1 4

43
2 1/2 I 1/2 I III 1/2 V
2 1 4 2 1 1 4 2 4 V

Thumb Position: B \flat Minor

49

T 3 V 4 III 1/2 1 4 I 2 4 1/2 1 1 I 4 2 4 2 2

55

2 2 III 1/2 1 4 1 VI 1 2 1 T 3 3 VI 1 2 1 III 1/2 1 4 1 I 2 2

61

2 2 4 2 4 1/2 1 1 1 I 4 2 2 4 2

67

2 4 III 1/2 1 II 4 1 V 4 1 V 1/2 4 2 T 3 3 V 1/2 2

73

4 1 V 4 4 III 1/2 1 4 II 1 III 1/2 4 I 2 2 4 1/2 1

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Thumb Position

B Major

B Major

1 4 1/2 1 1 4 1/2 4 II 1/2 4 IV 4 VI 1/2 1

7 3 2 3 2 VI 1/2 4 2 II 1/2 4 1 1/2 4 1

13 4 1 1/2 1 4 1 1 II 1/2 4 1 IV 4 2 V 1/2 4

19 T 3 V 1/2 4 IV 2 4 II 1/2 1 4 I 1 II 1/2 4 1 4 1 1

25 IV 1 1 2 4 VI 1/2 2 1 3 1 3 T 3 3 VI 1/2 3 1 3 IV 1 2 4 II 1/2 2 1 1

31 1 1 4 1 4 I 1 1 II 1/2 4 1 1 4 1

37 III 1/2 1 4 II 1/2 1 4 IV 4 2 V 1/2 4 1 VI 1/2 3 1 T 3 3 VI 1/2 1

43 3 V 1/2 1 4 IV 2 4 II 1/2 4 III 1/2 4 II 1/2 1 4 I

Thumb Position

B Minor

B Melodic Minor

Measures 1-6: Bass clef, 4/4 time, key signature of two sharps (F# and C#). Notes: G2, A2, B2, C3, D3, E3, F#3, G3, A3, B3, C4, D4. Fingering: I (1, 4, 0, 1, 4, 1/2, 4), II 1/2 (1, 4), IV (1, 4), VI 1/2 (1, 4).

Measures 7-12: Bass clef, 4/4 time, key signature of two sharps. Notes: E3, D3, C3, B2, A2, G2, F#2, E2, D2, C2, B1, A1. Fingering: 3, T (2), 3, 1, VI (3), IV (2, 4), 1, II 1/2 (4), 1, I (1), 0.

13

Natural Minor

Measures 13-18: Bass clef, 4/4 time, key signature of two sharps. Notes: G2, A2, B2, C3, D3, E3, F#3, G3, A3, B3, C4, D4. Fingering: 4, 1, 0, 4, 1, 1, 4, 0, 1, 4, III (1).

Measures 19-24: Bass clef, 4/4 time, key signature of two sharps. Notes: E3, D3, C3, B2, A2, G2, F#2, E2, D2, C2, B1, A1. Fingering: 4, II 1/2 (1), 4, IV (1), 4, VI 1/2 (1), 2, T (1), 3, 1, VI 1/2 (2), 1.

25

Measures 25-30: Bass clef, 4/4 time, key signature of two sharps. Notes: E3, D3, C3, B2, A2, G2, F#2, E2, D2, C2, B1, A1. Fingering: IV (4), 1, II 1/2 (4), 1, III (4), 1, I (4), 1, 0, 4, 1.

31

Harmonic Minor

Measures 31-36: Bass clef, 4/4 time, key signature of two sharps. Notes: G2, A2, B2, C3, D3, E3, F#3, G3, A3, B3, C4, D4. Fingering: 1, 4, 0, 1, 4, 0, 2, II 1/2 (1), 4, III (1), 4, V (2).

Measures 37-42: Bass clef, 4/4 time, key signature of two sharps. Notes: E3, D3, C3, B2, A2, G2, F#2, E2, D2, C2, B1, A1. Fingering: 3, T (2), 3, 2, V (3), 2, IV (4), 1, II 1/2 (4), 1, I (2), 0.

43

Measures 43-48: Bass clef, 4/4 time, key signature of two sharps. Notes: G2, A2, B2, C3, D3, E3, F#3, G3, A3, B3, C4, D4. Fingering: 4, 1, 0, 4, 1, 1, II (4), 2, IV (4), V 1/2 (4).

Thumb Position: B Minor

49

T 3 V 1/2 4 IV 1 4 II 2 4 I 1 1 II 4 2 4 2 2

55

2 2 IV 1 4 VI 1/2 1 2 1 T 3 3 VI 1/2 1 2 IV 1 4 II 2 2

61

2 2 4 2 4 I 1 1 1 II 4 2 2 4 2

67

2 III 4 II 1/2 1 IV 4 1 V 1/2 4 1 VI 1/2 2 1 T 3 3 VI 1/2 1

73

2 V 1/2 1 4 IV 1 4 4 1 4 II 2 4 I 1

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Thumb Position

C Major

C Major

1 2 0 1 2 0 1 4 III 4 V 4 VII
2 0 1 2 0 1 4 1 4 2 4 1

7
3 T 2 3 2 VII 3 1 V 4 2 III 4 1 I 4 1

13
0 2 1 0 2 I 1 III 4 1 V 4 VII 3 1

19
T VII 3 V 4 III 1 4 I 1 III 4 1 4 1 1

25
1 1 V 4 2 VII 3 1 T 3 3 VII 3 1 V 4 2 III 1

31
1 1 4 1 4 I 1 1 III 4 1 1 4 1

37
V 4 2 4 4 2 VI 3 1 VII 3 1 T 3 3 VII 1

43
3 VI 1 3 V 2 4 4 2 4 III 1 4 I

Micah Howard joined the world-renowned Pittsburgh Symphony Orchestra in 1996 at the age of 25. He regularly performs as a recitalist and chamber musician, and has been featured as a soloist with the Pittsburgh Symphony Orchestra. Howard has had the privilege of working with young musicians not only as a private teacher, but also as a lecturer and coach for various universities and music youth groups. In 2010 Howard received the Pennsylvania-Delaware String Teachers Association's *Outstanding String Teacher Award*. Since that same year, he has served as Artist Lecturer in Double Bass at Carnegie Mellon University in Pittsburgh. Micah Howard is passionate about promoting the arts and helping the next generation of musicians to achieve their greatest potential.