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Another ABC Presentation

American Band College



ABC's of the Overtone Series

Knowing all preferred
Trumpet Fingerings
by Rule

1. Choose the fingering with the least number of valves.
2. Unless it involves 3rd valve - or -
3. Is the 7th partial.

Overtone Series

Trumpet Preferred Fingerings

2nd partial:

Fundamental:

123

The image shows two staves of musical notation. The top staff is a treble clef with a sharp sign and a whole note on the second line, representing the 2nd partial (F#4). The bottom staff is a bass clef with a sharp sign and a whole note on the first space, representing the fundamental (F#3). Below the bass staff, the numbers '123' are written, indicating the preferred fingerings for the fundamental note.

Overtone Series

Trumpet Preferred Fingerings

2nd partial: $\sharp\bar{e}$ \bar{o}

Fundamental: \sharp 123 13

The image shows a musical staff with two staves. The top staff is a treble clef and the bottom staff is a bass clef. The top staff contains two notes: a sharp sign followed by a note with a bar over it, and a note with a bar over it. The bottom staff contains two notes: a sharp sign followed by a note, and a note. Below the bottom staff are the numbers 123 and 13.

Overtone Series

Trumpet Preferred Fingerings

2nd partial: $\sharp\bar{\circ}$ $\bar{\circ}$ $\flat\bar{\circ}$

Fundamental: $\sharp\bullet$ \bullet $\flat\bullet$

123 13 23

The image shows a musical staff with two staves. The top staff is labeled '2nd partial:' and contains three notes: a sharp sign followed by a circle with a horizontal bar above it, a plain circle with a horizontal bar above it, and a flat sign followed by a circle with a horizontal bar above it. The bottom staff is labeled 'Fundamental:' and contains three notes: a sharp sign followed by a solid black circle, a plain solid black circle, and a flat sign followed by a solid black circle. Below the bottom staff, the fingerings '123', '13', and '23' are written under the first, second, and third notes respectively.

Overtone Series

Trumpet Preferred Fingerings

2nd partial:

Fundamental:

123 13 23 12

The image shows a musical staff with two systems. The top system is labeled '2nd partial:' and contains four notes on a treble clef staff: a sharp sign followed by a note with a bar line above it, a natural sign followed by a note with a bar line above it, a flat sign followed by a note with a bar line above it, and a double bar sign followed by a note with a bar line above it. The bottom system is labeled 'Fundamental:' and contains four notes on a bass clef staff: a sharp sign followed by a note, a natural sign followed by a note, a flat sign followed by a note, and a double bar sign followed by a note. Below the bottom staff are the fingerings: '123' under the first note, '13' under the second, '23' under the third, and '12' under the fourth.

Overtone Series

Trumpet Preferred Fingerings

2nd partial:

Fundamental:

123 13 23 12 1

The image shows a musical staff with two parts. The upper part, labeled '2nd partial:', is written on a treble clef staff and contains five notes: G#4, A4, Bb4, Bb4, and Bb4. The lower part, labeled 'Fundamental:', is written on a bass clef staff and contains five notes: G#3, A3, Bb3, Bb3, and Bb3. Below the bass staff, the preferred fingerings for each note are listed as 123, 13, 23, 12, and 1 respectively.

Overtone Series

Trumpet Preferred Fingerings

The image displays musical notation for the overtone series of a trumpet. It consists of two staves. The upper staff, labeled "2nd partial:", shows six notes in treble clef: G#4, A4, Bb4, Bb4, Bb4, and C5. The lower staff, labeled "Fundamental:", shows six notes in bass clef: G#3, A3, Bb3, Bb3, Bb3, and C4. Below the fundamental notes are the preferred fingerings: 123, 13, 23, 12, 1, and 2.

2nd partial:

Fundamental:

123 13 23 12 1 2

Overtone Series

Trumpet Preferred Fingerings

The image displays musical notation for the overtone series of a trumpet. It consists of two staves. The upper staff, labeled "2nd partial:", uses a treble clef and shows seven notes: G#4, A4, Bb4, Bb4, Bb4, Bb4, and C5. The lower staff, labeled "Fundamental:", uses a bass clef and shows seven notes: G#3, A3, Bb3, Bb3, Bb3, Bb3, and C4. Below the fundamental staff, the preferred fingerings are listed as 123, 13, 23, 12, 1, 2, and 0.

2nd partial:

Fundamental:

123 13 23 12 1 2 0

Overtone Series

Trumpet Preferred Fingerings

2nd partial:

Fundamental:

123 13 23 12 1 2 0

➡ Second valve lowers pitch by a half-step

Overtone Series

Trumpet Preferred Fingerings

1st valve

2nd partial:

Fundamental:

123 13 23 12 1 2 0

Second valve lowers pitch by a half-step



First valve lowers pitch by a whole-step

Overtone Series

Trumpet Preferred Fingerings

3rd valve

2nd partial:

Fundamental:

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

Second valve lowers pitch by a half-step

First valve lowers pitch by a whole-step

→ Third valve lowers pitch by one & a half steps

Overtone Series

Trumpet Preferred Fingerings

Add
2nd
valve

2nd partial:

Fundamental:

123 13 23 12 1 2 0

Second valve lowers pitch by a half-step
First valve lowers pitch by a whole-step
Third valve lowers pitch by one & a half steps
Also consider the combination of valves



Overtone Series

Trumpet Preferred Fingerings

Lift
1st
valve

2nd partial:

Fundamental:

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

Second valve lowers pitch by a half-step
First valve lowers pitch by a whole-step
Third valve lowers pitch by one & a half steps
Also consider the combination of valves



Overtone Series

Trumpet Preferred Fingerings

The image displays the overtone series for a trumpet, showing preferred fingerings for the 3rd partial, 2nd partial, and fundamental. The notation is presented on three staves, with the 3rd partial on the top staff (treble clef), the 2nd partial on the middle staff (bass clef), and the fundamental on the bottom staff (bass clef). The notes are grouped by partials, and the fingerings are indicated by numbers 1, 2, 0, and 123.

3rd partial: $\sharp C_4$, C_4 , B_3 , A_3 , G_3 , F_3 , E_3 , D_3

2nd partial: $\sharp C_3$, C_3 , B_2 , A_2 , G_2 , F_2 , E_2 , D_2

Fundamental: $\sharp C_2$, C_2 , B_1 , A_1 , G_1 , F_1 , E_1 , D_1

Fingerings: 123 13 23 12 1 2 0 123

Overtone Series

Trumpet Preferred Fingerings

The image displays the overtone series for a trumpet, organized into three parts: 3rd partial, 2nd partial, and Fundamental. Each part is represented by a musical staff with notes and fingerings.

3rd partial: The notes are G#4, A4, Bb4, B4, C5, D5, E5, F5, G5. The notes are written in a treble clef with a sharp sign for G#4 and a flat sign for Bb4. The notes are connected by a brace on the left.

2nd partial: The notes are G#3, A3, Bb3, B3, C4, D4, E4, F4, G4. The notes are written in a bass clef with a sharp sign for G#3 and a flat sign for Bb3. The notes are connected by a brace on the left.

Fundamental: The notes are G#2, A2, Bb2, B2, C3, D3, E3, F3, G3. The notes are written in a bass clef with a sharp sign for G#2 and a flat sign for Bb2. The notes are connected by a brace on the left.

The fingerings for the fundamental notes are: 123, 13, 23, 12, 1, 2, 0, 123, 13.

Overtone Series

Trumpet Preferred Fingerings

The image displays the overtone series for a trumpet, organized into three parts: the 3rd partial, the 2nd partial, and the fundamental. Each part is represented by a musical staff with notes and fingerings. The 3rd partial is in the treble clef, the 2nd partial is in the bass clef, and the fundamental is in the bass clef. The notes are connected by a brace on the left. The fingerings are listed below the fundamental staff.

3rd partial:

2nd partial:

Fundamental:

123 13 23 12 1 2 0 123 13 23

Overtone Series

Trumpet Preferred Fingerings

The image displays the Overtone Series for a trumpet, showing preferred fingerings for the 3rd partial, 2nd partial, and fundamental. The notation is presented on three staves, with the 3rd partial on the top staff (treble clef), the 2nd partial on the middle staff (bass clef), and the fundamental on the bottom staff (bass clef). The notes are grouped by partial, and the fingerings are indicated by numbers 1, 2, 0, 123, 13, and 23.

3rd partial: $\sharp C_4$ C_4 $\flat C_4$ $\sharp C_4$ $\flat C_4$ $\sharp C_4$ C_4 $\flat C_4$ $\sharp C_4$ $\flat C_4$ $\sharp C_4$ C_4

2nd partial: $\sharp C_3$ C_3 $\flat C_3$ $\sharp C_3$ $\flat C_3$ $\sharp C_3$ C_3 $\flat C_3$ $\sharp C_3$ $\flat C_3$ $\sharp C_3$ C_3

Fundamental: $\sharp C_2$ C_2 $\flat C_2$ $\sharp C_2$ $\flat C_2$ $\sharp C_2$ C_2 $\flat C_2$ $\sharp C_2$ $\flat C_2$ $\sharp C_2$ C_2

Fingerings: 123 13 23 12 1 2 0 123 13 23 12

Overtone Series

Trumpet Preferred Fingerings

The image displays a musical score for the overtone series of a trumpet, organized into three staves. The top staff, labeled '3rd partial:', uses a treble clef and contains notes with various accidentals (sharps, naturals, flats) and bar lines. The middle staff, labeled '2nd partial:', uses a bass clef and contains notes with various accidentals. The bottom staff, labeled 'Fundamental:', uses a bass clef and contains notes with various accidentals. Below the fundamental staff, a sequence of numbers indicates preferred fingerings: 123, 13, 23, 12, 1, 2, 0, 123, 13, 23, 12, 1.

3rd partial:

2nd partial:

Fundamental:

123 13 23 12 1 2 0 123 13 23 12 1

Overtone Series

Trumpet Preferred Fingerings

Series
down
M3?

C	B	Bb	A	Ab	G	F#
OPEN	2	1	12 or 3	23	13	#123

Fundamental:

12

Overtone Series

Trumpet Preferred Fingerings

C	B	Bb	A	Ab	G	F#
OPEN	2	1	12 or 3	23	13	#123

Series
down
P5?

Fundamental:

12 #123

Overtone Series

Trumpet Preferred Fingerings

Series down M3? **Series down P5?**

Fundamental:

12 123

- 1. Choose the fingering with the least number of valves.**
2. Unless it involves 3rd valve - or -
3. Is the 7th partial.

Overtone Series

Trumpet Preferred Fingerings

C	B	Bb	A	Ab	G	F#
OPEN	2	1	12 or 3	23	13	#123

**Series
down
M3?**

Musical notation showing the overtone series for C. The top staff shows the notes C2, C3, G3, C4, E4, G4, Bb4, C5. The middle and bottom staves show the corresponding harmonic series for the trumpet, with fingerings indicated below the notes.

Fundamental:

12 #123 1

Overtone Series

Trumpet Preferred Fingerings

C	B	Bb	A	Ab	G	F#
OPEN	2	1	12 or 3	23	13	#123

Series
down
P5?

Musical notation showing the overtone series for C. The top staff is a treble clef with notes C2, C3, G3, C4, E4, G4, Bb4, C5. The middle staff is a grand staff with chords for each note. The bottom staff is a bass clef with notes C1, C2, G2, C3, E3, G3, Bb3, C4. Fingerings are indicated below the notes: 12, #123, 1, 13.

Fundamental:

12 #123 1 13

Overtone Series

Trumpet Preferred Fingerings

Series down M3? **Series down P5?**

Fundamental: 12 123 1 13

- 1. Choose the fingering with the least number of valves.**
2. Unless it involves 3rd valve - or -
3. Is the 7th partial.

Overtone Series

Trumpet Preferred Fingerings

C	B	Bb	A	Ab	G	F#
OPEN	2	1	12 or 3	23	13	#123

Series
down
M3?

Fundamental:

12 #123 1 13 0

Overtone Series

Trumpet Preferred Fingerings

C	B	Bb	A	Ab	G	F#
OPEN	2	1	12 or 3	23	13	#123

Series
down
P5?

Fundamental:

12	#123	1	13	0	12	

Overtone Series

Trumpet Preferred Fingerings

C	B	Bb	A	Ab	G	F#
OPEN	2	1	12 or 3	23	13	#123

Series
down
m7?

Fundamental:

12	#123	1	13	0	12	#123

Overtone Series

Trumpet Preferred Fingerings

Series down M3? **Series down P5?** **Series down m7?**

Fundamental:

12 123 1 13 0 12 123

1. Choose the fingering with the least number of valves.
2. Unless it involves 3rd valve - or -
3. Is the 7th partial.