

Scale	Degree Formulas																									
Chromatic	1	b2	2	b3	3	4	b5	5	b6	6	b7	7	Oct	1	b2	2	b3	3	4	b5	5	b6	6	b7	7	Oct
Major	1	2	3	4	5	6	7	1		2		3	4		5		6		7		Oct					
Natural Minor	1	2	b3	4	5	b6	b7	1		2	b3		4		5	b6		b7		Oct						
Major Pentatonic	1	2	3	5	6	1		2		3		5		6		Oct										
Minor Pentatonic	1	2	b3	4	5	b7	1		2	b3		4		5		b7		Oct								
Blues	1	b3	4	b5	5	b7	1			b3		4	b5	5		b7		Oct								
Major Blues	1	2	b3	4	b5	5	b6	b7	1		2	b3		4	b5	5	b6		b7		Oct					
Minor Blues	1	2	b3	4	b5	5	b6	b7	1		2	b3		4	b5	5	b6		b7		Oct					
Ionian mode (Major)	1	2	3	4	5	6	7	1		2		3	4		5		6		7		Oct					
Dorian mode (Metal)	1	2	b3	4	5	6	b7	1		2	b3		4		5		6	b7		Oct						
Phrygian Mode	1	b2	b3	4	5	b6	b7	1	b2		b3		4		5	b6		b7		Oct						
Lydian Mode - Progressive	1	2	3	#4	5	6	7	1		2		3		#4	5		6		7		Oct					
Mixolydian Mode	1	2	3	4	5	6	b7	1		2		3	4		5		6	b7		Oct						
Aeolian Mode (Nat. Minor) Mtl	1	2	b3	4	5	b6	b7	1		2	b3		4		5	b6		b7		Oct						
Locrian mode	1	b2	b3	4	b5	b6	b7	1	b2		b3		4	b5		b6		b7		Oct						
Harmonic Minor	1	2	b3	4	5	b6	7	1		2	b3		4		5	b6			7		Oct					
Phrygian Dominant (Spanish)	1	b2	3	4	5	b6	b7	1	b2			3	4		5	b6		b7		Oct						
Jazz Melodic Minor	1	2	b3	4	5	6	7	1		2	b3		4		5		6		7		Oct					
Dorian b1	1	b2	b3	4	5	6	b7	1	b2		b3		4		5		6	b7		Oct						
Lydian Augmented	1	2	3	#4	#5	6	7	1		2		3		#4		#5	6		7		Oct					
Lydian b7	1	2	3	#4	5	6	b7	1		2		3		#4	5		6	b7		Oct						
Mixolydian b13 (Hindu)	1	2	3	4	5	b6	b7	1		2		3	4		5	b6		b7		Oct						
Locrian #2	1	2	b3	4	b5	b6	b7	1		2	b3		4	b5		b6		b7		Oct						
Super Locrian (Altered)	1	b2	b3	b4	b5	b6	b7	1	b2		b3	b4		b5		b6		b7		Oct						
Whole Tone	1	2	3	#4	#5	#6	1		2		3		#4		#5		#6		Oct							
Diminished Whole Half	1	2	b3	4	b5	b6	6	7	1		2	b3		4	b5		b6	6		7		Oct				
Diminished Half Whole	1	b2	b3	b4	b5	5	6	b7	1	b2		b3	b4		b5	5		6	b7		Oct					
Hungarian Minor	1	2	b3	#4	5	b6	7	1		2	b3			#4	5	b6			7		Oct					
Double Harmonic	1	b2	3	4	5	b6	7	1	b2			3	4		5	b6			7		Oct					
Enigmatic	1	b2	3	#4	#5	#6	7	1	b2			3		#4		#5		#6	7		Oct					
Japanese	1	b2	4	5	b6	1	b2					4		5	b6					Oct						

Open	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
			0		0		0		0			o o

Treble Clef

F	A	C	E	
E	G	B	D	F

Order of Sharps

F	C	G	D	A	E	B
Father	Charles	Goes	Down	And	Ends	Battle

Order of Flats

B	E	A	D	G	C	F
Battle	Ends	And	Down	Goes	Charles	Father

Circle of 5ths Major # Keys

Circle of 4ths Major b Keys

Shortcuts - Sharp Keys

The major key is one semitone above the last written sharp.

When asked "how many sharps are in a certain key" you find the sharp one semi-tone below the key, then count up the order of #'s.

Shortcuts - Flat Keys

The Second last written flat is the major key. . . so to provide the flats, one must countup the order of flats to that key, then add one more flat from the order of b's.

SHARP KEYS

	I	ii	iii	iv	v	vi	vii	I
C Major	C	D mi	E mi	F	G	A mi	B o	C

	I	ii	iii	iv	v	vi	vii	I
1 G Major	G	A mi	B mi	C	D	E mi	F# o	G

	I	ii	iii	iv	v	vi	vii	I
2 D Major	D	E mi	F# mi	G	A	B mi	C# o	D

	I	ii	iii	iv	v	vi	vii	I
3 A Major	A	B mi	C# mi	D	E	F# mi	G# o	A

	I	ii	iii	iv	v	vi	vii	I
4 E Major	E	F# mi	G# mi	A	B	C# mi	D# o	E

	I	ii	iii	iv	v	vi	vii	I
5 B Major	B	C# mi	D# mi	E	F#	G# mi	A# o	B

	I	ii	iii	iv	v	vi	vii	I
6 F# Major	F#	G# mi	A# mi	B	C#	D# mi	E# o	F#

	I	ii	iii	iv	v	vi	vii	I
7 C# Major	C#	D# mi	E# mi	F#	G#	A# mi	B# o	C#

FLAT KEYS

	I	ii	iii	iv	v	vi	vii	I
1 F Major	F	G mi	A mi	Bb	C	D mi	E o	F

	I	ii	iii	iv	v	vi	vii	I
2 Bb Major	Bb	C mi	D mi	Eb	F	G mi	A o	Bb

	I	ii	iii	iv	v	vi	vii	I
3 Eb Major	Eb	F mi	G mi	Ab	Bb	C mi	D o	Eb

	I	ii	iii	iv	v	vi	vii	I
4 Ab Major	Ab	Bb mi	C mi	Db	Eb	F mi	G o	Ab

	I	ii	iii	iv	v	vi	vii	I
5 Db Major	Db	Eb mi	F mi	Gb	Ab	Bb mi	C o	Db

	I	ii	iii	iv	v	vi	vii	I
6 Gb Major	Gb	Ab mi	Bb mi	Cb	Db	Eb mi	F o	Gb

	I	ii	iii	iv	v	vi	vii	I
7 Cb Major	Cb	Db mi	Eb mi	Fb	Gb	Ab mi	Bb o	Cb

Major Scale

T	T	S	T	T	T	S	
R	2	3	4	5	6	7	8

T = Tone, S = Semi-tone

Minor Scale

T	S	T	T	S	T	T	
R	2	b3	4	5	b6	b7	8

3 Part Harmony (Triads)

Major: R 3 5

Minor: R b3 5

Diminished: R b3 b5

Augmented: R 3 $^{\#}5$

4 Part Harmony

Major 7: R 3 5 7 $C_{maj}^7, C_{MA}^7,$

Minor 7: R b3 5 b7 $C_{mi}^7, C^{-7}, C_{min}^7, C_m^7$

Dominant 7: R 3 5 b7 C^7

Minor 7 b5 : R b3 b5 b7 $C_{mi}^7{}^b5, C^{-7}{}^b5$