## **MUSIC THEORY QUICK FACTS SHEET**

#### **PART-WRITING RULES**

- 1. Allow all tendency tones to resolve correctly.
- 2. Do not create parallel octaves, fifths, or unisons (by parallel or contrary motion).
- 3. If it is possible to keep a note, do so, if not, move each part by the smallest possible interval. Avoid leaping by large, or difficult intervals especially augmented intervals.
- 4. No more than an octave between SA and AT.
- 5. No crossed voicings or overlapping of voices.
- 6. When there is a choice of which chord member to double, use the most stable tone present. Usually, this is the root, followed by the fifth. Never double a tendency tone as this will force you to break rule 1 or 2.
- 7. Never omit any note of a triad or seventh chord except the fifth and only omit the fifth when you must do so in order to follow rule 1.

These principles assume that you have written with the correct ranges and that all the chords actually contain the notes you say they do.

Туре	Approached By:	Left By:
Neighbor Tone	step	step in opposite direction
Passing Tone	step	step in the same direction
Appoggiatura	leap	step in the opposite direction
Escape Tone	step	leap in the opposite direction
Suspension	same note	step down
Retardation	same note	step up
Anticipation	step or leap	same note
Pedal Tone	same note	same note

### **TENDENCY TONES**

- The leading tone in a V or vii° chord resolves UP by step to the tonic pitch when going to I or vi.
- The 7th of any chord resolves DOWN by step.
- The root of a Neapolitan chord (lowered 2<sup>nd</sup> scale degree) resolves DOWN by diminished 3<sup>rd</sup> to the leading tone of a V chord.
- The pitches forming the augmented 6<sup>th</sup> interval in any of the augmented sixth chords resolve outward by halfstep in both directions to the dominant pitch.
- Any pitch that is altered usually resolves in the direction of its alteration.

	CADENCE TYPES						
Cadence Name	Identifying Characteristics						
PAC	V or V <sup>7</sup> moving to I. Both chords in root position. Soprano on root of I chord.						
(Perfect Authentic Cadence)	Entering the state of the stat						
IAC	V or V <sup>7</sup> moving to I, but with either an inverted chord, or the soprano not finishing on						
(Imperfect Authentic Cadence)	the tonic.						
HC	A cadence that ends on a V chord. The V chord can be approached from a number of						
(Half Cadence)	other chords (I, ii, IV, V/V, etc.)						
PC	IV moving to I. Also known as "church" cadence. Named for the "Amen" commonly						
(Plagal Cadence)	used at the end of hymns.						
DC	A cadence that creates the expectation of going to I, but substitutes another chord						
(Deceptive Cadence)	A cadence that creates the expectation of going to I, but substitutes another chord instead. Common substitutes for I are: vi, IV <sup>6</sup> , bVI, and occasionally IV or V/ii.						

	Root	1 st	2 <sup>nd</sup>	3rd
	Position	Inv.	Inv.	Inv.
Triad	none	6	6	none
Seventh	7	6	4	4
Chord	1	5	3	2

Major						vi	vii <sup>o</sup>
Minor	i	ii°	III	iv	(v)	VI	viiº (VII
20000 100					(v) he vii		(V

Rule of Thumb		Diagram of Common Functional Progressions
Root movement by:	Typical Direction	[IV] [vii°]
3 <sup>rd</sup>	Ascending Descending	
5 <sup>th</sup>	Descending	

# NUMBER OF HALFSTEPS IN SIMPLE INTERVALS

	Dim	Min	Maj	Aug
$2^{nd}$	0	I	2	3
3 <sup>rd</sup>	2	3	4	5
$6^{th}$	7	8	9	10
$7^{th}$	9	10	11	12

	Dim	Per	Aug
$4^{th}$	4	5	6
5 <sup>th</sup>	6	7	8
8 <sup>th</sup>	11	12	13

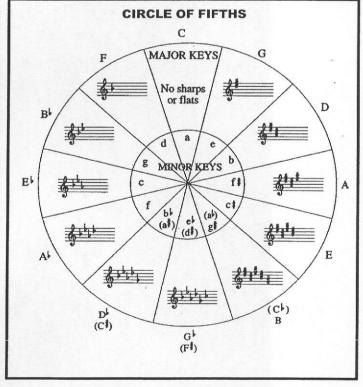
#### CHROMATIC CHORDS Type Notation Distinguishing Features Any dominant-functioning chromatic chord that leads (by falling 5<sup>th</sup> or rising halfstep root V/ii movement) to a diatonic pitch. The chord on the top can be any of the following (in any Secondary viiº7/V inversion): V, V<sup>7</sup>, vii°, vii°<sup>7</sup>, vii°<sup>7</sup>. The chord on the bottom can be any diatonic or borrowed Chord chord that is major or minor. see borrowed Borrowed Any chromatic triad or seventh chord that is "borrowed" from the parallel minor (or the parallel Chord chord chart major if the original key is minor). All notes in the chord must exist in the parallel key to qualify. A major triad in first inversion with a lowered $2^{nd}$ scale degree as its root. This chord functions as a pre-dominant chord, usually coming before a V or a $1^6_4$ . Neapolitan $N^6$ 6<sup>th</sup> Chord It+6 Any of three specific chords which contain the interval of an augmented sixth resolving outward Augmented Fr<sup>+6</sup> 6th Chord by half-steps in both directions to the dominant pitch. See chart. Ger<sup>+6</sup>

	N-4 D	Example
	Notes Present	(Key of C)
It <sup>+6</sup>	Three pitches only. The characteristic augmented sixth interval, and the tonic pitch.	\$ \$ 8
Fr <sup>+6</sup>	The characteristic augmented sixth interval, the tonic pitch, and the second scale degree.	
Ger <sup>+6</sup>	The characteristic augmented sixth interval, the tonic pitch, and the lowered third (or the regular third in minor).	8 18

\*The "characteristic augmented sixth interval" consists of two pitches, an augmented sixth apart, that resolve outward by halfsteps to the dominant pitch.

			7		ode N ds – M			v		
	2000	tonic	I	ii	iii	IV	V	vi	viiº	7
	Borrowed Chord		i	iiº	PIII	iv	v	ÞVI	PVI	I
					ys are i Chord			he IV or Key	,	
Diato Chor		I <sup>M7</sup>	ii	7	iii <sup>7</sup>	IV <sup>M</sup>	7 \	J <sup>7</sup>	vi <sup>7</sup>	vii <sup>ø7</sup>
Borro	owed i <sup>7</sup> ii <sup>97</sup>		97	≽III <sup>M7</sup>	iv <sup>7</sup>	1	v <sup>7</sup> b\	/I <sup>M7</sup>	♭VII viiº	





CHORD	OLIAL	ITIES

Triads

Triaus									
Chord Type	Bottom Interval	Top Interval	Outside Interval	Roman Numeral	Jazz Symbol	Example (key of F)			
Major Triad	d M3 m3		P5 IV		ВЬ	<b>2</b> 5 8			
Minor Triad	m3	M3	P5	vi	Dm, Dmi, Dmin, D-	\$ 18			
Augmented Triad	М3	M3	A5	V <sup>+</sup>	C⁺, Caug	<b>€</b>			
Diminished Triad	m3	m3	d5	vii°	E°, Edim	\$ 8			

Seventh Chords

			Seventh	1 Chord	Is			
Chord Type	Common Name	Bottom Interval	Middle Interval	Top Interval	Outside Interval	Roman Numeral	Jazz Symbol	Example (key of G)
Minor-minor 7 <sup>th</sup>	Minor 7 <sup>th</sup>	m3	М3	m3	m7	ii <sup>7</sup>	Am7, Ami7, A-7	<b>*</b> **
Major-major 7 <sup>th</sup>	Major 7 <sup>th</sup>	М3	m3	М3	M7	I <sup>M7</sup>	GM7, Gma7, Gmaj7, G∆7	£#8
Major-minor 7 <sup>th</sup>	Dominant 7 <sup>th</sup>	М3	m3	m3	m7	V <sup>7</sup>	D7	6 8
Fully diminished 7 <sup>th</sup>	Diminished 7 <sup>th</sup>	m3	m3	m3	d7	vii <sup>o7</sup>	F#° <sup>7</sup> , F#dim7	6# B
Half diminished 7 <sup>th</sup>	Half diminished 7 <sup>th</sup>	m3	m3	m3	М3	ii <sup>ø7</sup>	Am7 <sup>(,5)</sup>	Z#18
Minor-major 7 <sup>th</sup>	Minor-major 7 <sup>th</sup>	m3	М3	М3	М7	n/a	Em <sup>(maj7)</sup>	£##8

