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, double the bass when the chord is in root position or second inversion. Double the soprano when in first inversion. Remember, diminsished chords should be in first inversion-double the bass.
- 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.

NON-CHORD TONES									
Approached By:	Left By:								
step	step in opposite direction								
step	step in the same direction								
leap	step in the opposite direction								
step	leap in the opposite direction								
same note	step down								
same note	step up								
step or leap	same note								
same note	same note								
	step step leap step same note same note step or leap								

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 2nd scale degree) resolves DOWN by diminished 3rd to the leading tone of a V chord.
- The pitches forming the augmented 6th 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 ⁷ moving to I. Both chords in root position. Soprano on root of I chord.							
(Perfect Authentic Cadence)								
IAC	V or V^7 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)	instead. Common substitutes for I are: vi, IV ⁶ , bVI, and occasionally IV or V/ii.							

INVERSION SYMBOLS 3^{rd} $2^{nd} \\$ Root 1^{st} Position Inv. Inv Inv. 6 Triad none none Seventh 6 Chord

DIATONIC CHORD QUALITIES									
Major	I	ii	iii	IV	V	vi	vii ^o		
Minor	i	iiº	III	iv	V (v)	VI	vii ^o (VII)		
* In minor the V and the vii ^o require									
an ac	cid	ental	to ra	ise th	ie lead	ding t	one.		

FUNCTIONAL DIATONIC CHORD PROGRESSIONS							
Rule oj	Rule of Thumb Diagram of Common Functional Progressions						
Root movement by: 2 nd 3 rd 5 th	Typical Direction Ascending Descending Descending						

NUMBER OF HALFSTEPS IN SIMPLE INTERVALS

	Dim	Min	Мај	Aug
2^{nd}	0	1	2	3
3^{rd}	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 th	6	7	8
8^{th}	11	12	13

	CHROMATIC CHORDS								
Туре	Notation	Distinguishing Features							
Secondary Chord	V/ii vii ^{o7} /V	Any dominant-functioning chromatic chord that leads (by falling 5^{th} or rising halfstep root movement) to a diatonic pitch. The chord on the top can be any of the following (in any inversion): $V, V^7, vii^0, vii^{07}, vii^{07}, vii^{07}$. The chord on the bottom can be any diatonic or borrowed chord that is major or minor.							
Borrowed Chord	see borrowed chord chart	Any chromatic triad or seventh chord that is "borrowed" from the parallel minor (or the parallel major if the original key is minor). All notes in the chord must exist in the parallel key to qualify.							
Neapolitan 6 th Chord	N ⁶	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 I ⁶ ₄ .							
Augmented 6 th Chord	It ⁺⁶ Fr ⁺⁶ Ger ⁺⁶	Any of three specific chords which contain the interval of an augmented sixth resolving outward by half-steps in both directions to the dominant pitch. See chart.							

	AUGMENTED 6TH CHORDS								
	Notes Present	Example (Key of C)							
It ⁺⁶	Three pitches only. The characteristic augmented sixth interval, and the tonic pitch.	\$ # 8							
Fr ⁺⁶	The characteristic augmented sixth interval, the tonic pitch, and the second scale degree.								
Ger ⁺⁶	The characteristic augmented sixth interval, the tonic pitch, and the lowered third (or the regular third in minor).								
*The	"characteristic augmented sixth intervo	al" consists of two							

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

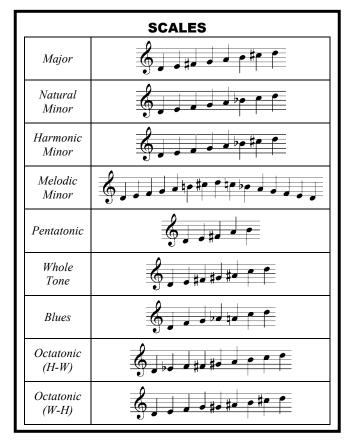
BORROWED CHORDS (Mode Mixture)

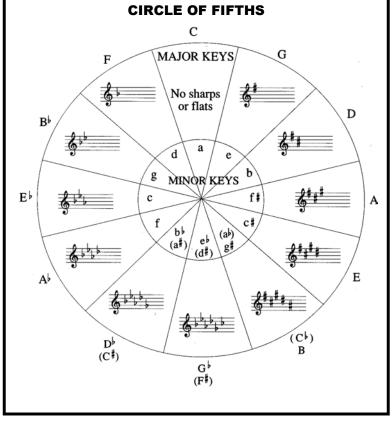
Triads – Maior Kev

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Diatonic Chord	Ι	ii	iii	IV	V	vi	viiº
Borrowed Chord	i	iiº	١III	iv	v	γVI	♭VII

The only triads commonly borrowed in minor keys are the I and the IV

Seventh Chords – Major Key Diatonic IV^{M7} vii^{ø7} I^{M7} ii^7 V^7 iii⁷ $vi^7\\$ Chord♭VII⁷ Borrowed $ii^{\, \text{ø}7}$ \mathbf{v}^7 $\flat VI^{M7}$ $\flat III^{M7}$ iv^7 vii^{o7} Chord





CHORD QUALITIES

Triads

Chord Type	Bottom Interval	Top Interval	Outside Interval	Roman Numeral	Jazz Symbol	Example (key of F)
Major Triad	M3	m3	P5	IV	ВЬ	
Minor Triad	m3	M3	P5	vi	Dm, Dmi, Dmin, D-	8
Augmented Triad	М3	M3	A5	V^{+}	C ⁺ , Caug	** **********************************
Diminished Triad	m3	m3	d5	viiº	E°, Edim	\$,8

Seventh Chords

Cl I	C	D - 44	14:111-	T	0	D	7	F
Chord	Common	Bottom	Middle	Тор	Outside	Roman	Jazz	Example
Туре	Name	Interval	Interval	Interval	Interval	Numeral	Symbol	(key of G)
Minor-minor 7 th	Minor 7 th	m3	М3	m3	m7	ii ⁷	Am7, Ami7, A-7	# 8
Major-major 7 th	Major 7 th	М3	m3	М3	M7	I^{M7}	GM7, Gma7, Gmaj7, G∆7	**
Major-minor 7 th	Dominant 7 th	М3	m3	m3	m7	V^7	D7	**
Fully diminished 7 th	Diminished 7 th	m3	m3	m3	d7	vii ^{o7}	F# ^{o7} , F#dim7	* * * * * * * * * * * * * * * * * * *
Half diminished 7 th	Half diminished 7 th	m3	m3	m3	М3	ii ^{ø7}	Am7 ⁽ , ⁵⁾	8 ***
Minor-major 7 th	Minor-major 7 th	m3	М3	М3	M7	n/a	Em ^(maj7)	* ***

