# **Noun Ending Rules**

1. Stems ending in  $\alpha$  or  $\eta$  are in the 1st declension "A class", stems ending in  $\alpha$  are in the 2nd declension "O class", and consonantal stems are in the 3rd declension.

Square of Stops Plus

κ

Labial

Dental

Unvoiced Voiced

γ

δ

- 2. Neuter nouns have the same form in the nominative and the accusative.
- 3. Almost all neuter words end in  $\alpha$  in the nominative and accusative plural.
- 4. In the dative singular, the  $\iota$  subscripts if possible. (Because an t can only subscript under a vowel--in which case the vowel lengthens--it subscripts only in the Velar

ist & ziid decielisio	118).			
5. Vowels can often	change their	length	("ablaut").	

- 6. In the genitive and dative, the masculine and neuter will always be identical.
- 7. The Square of Stops
- 8. A  $\tau$  cannot stand at the end of a word and will drop off.
- 9. 1st Declension nouns that end in  $\varepsilon$ ,  $\iota$ , or  $\rho$  will have an  $\alpha$  instead of an  $\eta$  in the singulars. For other forms see Mounce 345-6.

		Delin	ite Ar	ncies	Noun Engings							
		M	F	N	M	F	N		M/F	N		
	Class	<b>O/2</b>	A/1	<b>O/2</b>	0	A	0		Cons	.+ι, υ		
	Nom. Sg.	ó	η΄	τó	ς		ν		ς /			
9	Gen. Sg.	τοῦ	τῆς	το <del>ῦ</del>	υ	ς	υ		ος	ος		
	Dat. Sg.	τῷ	τĝ	τῶ	ι	ι	ι		ι	ι		
]	Acc. Sg.	τό <mark>ν</mark>	τήν	τó	ν	ν	ν		$\alpha/\nu$			
j	Nom. Pl.	οί	αί	τά	ι	ι	α		ες	α		
	Gen. Pl.	τῶν	τῶν	τῶν	ων	ων	ων		ων	ων		
	Dat. Pl.	τοῖς	ταῖς	τοῖς	ις	ις	ις		σι(ν)	σι(ν)		
	Acc. Pl.	τούς	τάς	τά	ນເ	_	α		ας	α		

## **Vowel and Diphthong Contraction Chart Combined with Lengthenings** Lengthenings have filled cells. Where the lengthened form differs from the contraction, the cell is split.

	α	αι	αυ	3		ε	ı¹	$\varepsilon v^2$	η	ŋ	ι		0		0	ι	ου	υ		ω	ω
α	α	α		α	;	α	/α		α	α	α	ι	ω		η	1	ω	αι	υ	ω	ω
ε	η	ŋ	ηυ	ει	η	ει	ŋ	ηυ/ευ	η	ŋ	ει	ι	ου	ω	οι	ώ	ου	ευ	υ	ω	ώ
η	η	ŋ		η			ŋ		η	ŋ			ω		η	١		ηι	)	ω	ω
o	ω	ω		01	υ	οι	/ου		ω	οι	01	ι	01	)	О	ι	ου	01	)	ω	ώ
ω	ω			ω	)				ω		ω		ω					ω1	υ	ω	

In the case of  $\alpha$  and  $\alpha$ , they are formed when the ending has a diphthong in its natural state. The alternate endings of  $\alpha$  and ov are formed when the  $\epsilon\iota$  is formed by contraction.

<sup>2</sup>At times, this form does not augment.

Pe	ersonal	Pronouns
1st	2nd	3rd 2-1-2(2b)
έγώ	συ	αύτ-ος η ο
έμοῦ	σου	
ἐμοί	σοι	
, έμε	σε	
ήμεῖς	ύμεῖς	
ήμῶν	ύμῶν	
ήμῖν	ύμῖν	
ήμας	ύμᾶς	
Short fo	orms, μα	ου, μοι, με

Near & Far Demonst	trative Pronouns							
Near	Far							
2-1-2(2b)	2-1-2(2b)							
οὖτ-ος αὕτ-η τοῦτ	-ο έκειν-ος η ο							
Masculine and Feminine nominatives begin with the vowels and rough breathing marks. However, their other forms have τ.								

## Attributive/Predicate Rules

A+A+N=A Adjective+Article +Noun=Attributive A-A+N=P Adjective-Article+Noun=Predicate A-N=S Adjective-Noun=Substantive A+N-As=I Adjective+Noun-Articles=Independent

Αὐτός-A+N=P αὐτός -Article+Noun=Predicate. **Φ**αὖτός does not have the article in its Predicate position.

**②**When used reflexively, it is usually nominative and modifying a noun **3**When used as the identical adjective it is usually attributive.

TITLE I	G.			
The	Sigi	mar	iato	r

Aspirate

θ

#### As Part of the Stem

- →Before  $\mu$  or  $\nu$ ,  $\sigma$  disappears and the vowel before it lengthens.  $\epsilon \sigma + \mu \iota = \epsilon \iota \mu \iota$ .
- → Two σ brought together by inflection become one σ. τελεσ+σαι = τελεσαι.

#### As Part of the Noun Ending

 $\rightarrow v\tau$ ,  $v\delta$ ,  $v\theta + \sigma = v\sigma\sigma \rightarrow v\sigma \rightarrow v$  then v drops out and the vowel preceding it is lengthened. So also v, τ, δ, θ. Cf. τιν, παντ, έν, χαριτ, φωτ, ελπιδ, πενυματ

 $\rightarrow \sigma$  as one of the noun endings does not drop out even when intervocalic.

#### As Part of the Verb Ending

- ⇒v drops out because of the  $\sigma$  & the preceding vowel is lengthened:  $\varepsilon+o=ov$ ;  $\alpha/o+o=\omega$  $\rightarrow$  As part of the verb endings in non-liquid verbs,  $\sigma$  only drops out in the 2SM/P forms οί σαι & σο.
- As Part of the Tense Formative
- $\rightarrow$ The  $\sigma$  drops out in the Perfect, Active, Feminine Participle because it is intervocalic.
- **→Liquid limners**  $\lambda \mu \nu \rho + \varepsilon \sigma$  (liquid Futures) or  $+ \sigma$  (1st Aorist) causes the  $\sigma$  to
- → The only stop that can stand before  $\sigma$  is  $\pi$  or  $\kappa$ . Hence,  $\beta$ ,  $\phi$  become  $\pi$ ;  $\gamma$ ,  $\chi$  become  $\kappa$ . γραφ+σω = γραπσω.

#### Metamorphosis

- →A dental stop  $(\tau, \delta, \theta)$  before another dental stop becomes a  $\sigma$ :  $\iota\delta+\tau\epsilon=\iota\sigma\tau\epsilon$ .
- → A dental stop  $(\tau, \delta, \theta)$  before μ often becomes σ: πεφραδ+μαι = πεφρασμαι.

	Indicative and Non-Indicative of εἰμί										
Present	Imperfect	Future	Subjunctive	Imperative	Infinitive						
εἰμί1	<b>η</b> μην	ἔσομαι	ΰ		είναι						
εί	ή̈ς	ἔση	η̈́ς	ἴσθι							
ἐστί(ν)	ήν	ε "σται	η̈́ς	ἔστω							
ἐσμέν	ἦμεν, ἦμεθα	ἐσόμεθα	ώμεν								
έστέ	ήτε	ισεσθε	ἦτε	ἔστε							
εἰσί(ν)	ἦσαν	εσονται	ῷσι(ν)	ι Έστωσαν							

The root for  $\varepsilon i \mu i$  is  $\varepsilon \sigma$ . Normally, the  $\sigma$  drops out before  $\mu$  and the preceding vowel is lengthened (Smyth §105). Development of the **Indicative:**  $\varepsilon \sigma - \mu \iota \rightarrow \varepsilon - \mu \iota \rightarrow \varepsilon \iota \mu \iota$ ;  $\varepsilon \sigma - \sigma \iota \rightarrow \varepsilon \sigma \iota \rightarrow \varepsilon \hat{\iota}$ ;  $\varepsilon \sigma - \tau \iota(\nu)$ ; retains the original  $\tau_1$  ending;  $(\sigma$ -) $\epsilon \nu \tau_1 \rightarrow \epsilon_1 \sigma_1$ . The **Subjunctive**:  $\varepsilon \sigma - \omega \rightarrow \varepsilon \omega \rightarrow \hat{\omega}$ . The **Optative:**  $\varepsilon \sigma - \iota \eta - \nu \rightarrow \varepsilon \iota \eta \nu$ ;  $\varepsilon \sigma - \iota - \mu \varepsilon \nu \rightarrow \varepsilon \omega$ ειμεν. The **Infinitive:** εσ-ναι  $\rightarrow$  ειναι. The **Participle:** εσ-ων  $\rightarrow$  $\varepsilon\omega\nu \rightarrow \omega\nu$  (Smyth §770).

## Consonantal Reduplication

- →With a single consonant, repeat the consonant, add epsilon: λέλυκα
- → If the consonant is  $\phi$ ,  $\chi$ ,  $\theta$  then you get the hardened form  $\pi$ ,  $\kappa$ ,  $\tau$ . πεφα... κεγα... τεθε...
- →In Compound Verbs the reduplication takes place before the verb in the same way augmentation does. ἐκβέβληκα
- →Contract Verbs lengthen their contract vowels. γεγέννηκα or λελάληκα

## Vocalic Reduplication

- →Vowels or diphthongs, the vowel lengthens as with the Imperfect. αναπάω to ηνάπηκα αίτέω to ήτηκα
- → Verbs beginning with two consonants will usually have vocalic reduplication. γνω becomes έγνωκα

# Attic Reduplication

→Some verbs whose themes begin with  $\alpha$ ,  $\epsilon$  or of ollowed by a single consonant, reduplicate by repeating the initial vowel and the consonant and by lengthening α and ε to η, and ο to ω. ἀκούω becomes ἀκήκοα for ἀκήκο(v)α ἄγω has ἀγήοχα for ἀγη(γ)οχα

Condi	itional Sentences	
Class	Protasis	Apodosis
1st	εί + any tense Indicative; negated by οὐ	any mood or tense
2nd	$\epsilon i + past$ tense Indicative; negated by $\mu \eta$	$\ddot{\alpha}\nu$ + same tense Indicative as the protasis
3rd	ἐάν + Subjunctive negated by μή	any mood and tense
4th	εi + Optative	$\ddot{\alpha}v$ + optative

Darris J. Brock May 30, 2007 (12:15am) Greek on a Sheet

This verb chart reflects the actual verb endings, not simply paradigm endings. The shaded cells are NOT actual endings but the result of morphology. The actual ending is listed in the cell to the immediate left separated by a lightly dashed line and a footnote explains the change. The cells with **bold** outlines are  $\mu \iota$  verb endings which will be helpful to know but not formally covered until the end of the book. Memorizing this chart drastically reduces the amount of memorization required. My adaptation is best to learn because it forces you to learn rules of contraction but also shows you the results of the contraction. Red letters are contract verb imperatives.

	Verb Endings f	or the Indicati	ve, Subjunc	tive, Optativ	ve, and Imperati	ve Moods	
	PRIMAR	Y	SECON	IDARY	IMPER	ATIVE	
	Active	Middle	Active	Middle	Active	Middle	
1S	$ \omega^1$ $\mu\iota$	μαι	μ <sup>7</sup> α ν	μην	No	one	
2S	$\varsigma^2$	σαι <sup>6</sup> η/α/οι	ς	σο <sup>9</sup> ου/ω	- ε <sup>10</sup> ν α	σο <sup>11</sup> <mark>ου ω</mark> αι	
			,		η θι ς <mark>ει ου</mark>	τι*	
3S	$\sigma\iota(v)$ $\iota^3$ $\varepsilon\iota^4$	ται	- $\varepsilon(v)^8$	το	τω*	σθω	
1P1	μεν	μεθα	μεν	μεθα	No	one	
2P1	τε	σθε	τε	σθε	τε*	σθε	
3P1	$v\sigma\iota(v)  ov\sigma\iota(v)^5$			ντο	τωσαν*	τωσαν	
SPI	ασι(ν)	νται	ν σαν	V 10	*Aor. pass. $\theta\eta$	σθωσαν	

MBG p. 80 n5; Smyth §463 c; Funk §3670.2).

Written as  $ov\sigma\iota$ , technically the ending is  $v\sigma\iota$  but the v drops out because of the  $\sigma$ . The connecting vowel, which would have been o before a v, has lengthened to ou to compensate (Mounce p. 128 fn 8). Additionally, a moveable nu may be added to the end of both ουσι(ν) and ασι(ν).

<sup>6</sup>Except for the Perfect M/P, the 1st Aorist M, and the M/P μι verbs, the sigma drops out and the vowels contract. Contracted forms may be  $\eta$ ,  $\alpha$ , or. Some charts list  $-\varepsilon \iota$  as an alternate ending Smyth (§628) mentions that it is an alternate spelling of the Present and Future M/P and the Future Perfect passive. It is an Attic spelling (EI for ηor ηι). In the NT, this form occurs only in Lk. 22:42 (βούλει) a deponent verb. It, along with οιει and οψει only have this form. All other 2S verbs in the NT ending this way are active Imperatives of contract verbs ending in  $\varepsilon$ .

Smyth explains that the  $\alpha/\nu$  ending actually is a  $\mu$  which converts to a  $\nu$  when preceded by a vowel or to an  $\alpha$  when preceded by a consonant. The  $\mu$  is one of the "sonant nasals"  $\lambda$ ,  $\mu$ ,  $\nu$ ,  $\rho$ . The 1st Aorist  $\hat{\epsilon}\lambda\hat{\upsilon}+\sigma+\mu$  became  $\tilde{\epsilon}\lambda\upsilon\sigma\alpha$  and the  $\alpha$  grew into use in all the 1st Aorist forms except the 3 sg. which gives us the so-called  $\sigma\alpha$  tense formative (Smyth §464a & 666).

 $^8\text{Technically},$  there is no ending here. Instead, the connecting vowel  $\epsilon$  stands alone or with a moveable nu  $\varepsilon(v)$ . In the Secondary Active it may be that the  $\varepsilon$  is held over from the Perfect tense

<sup>11</sup>Technically,  $\sigma o$  is the ending but the  $\sigma$ 

drops out when it is intervocalic (Smyth §120)

and the o contracts with the connecting vowel,

either  $\varepsilon$  or o and the result is lengthening to ov

or ω respectively. In the Middle of liquid verbs,

such as the 1st Aorist, the ending switches to αι

(Smyth §669). However, σo does appear as an

Thematic verbs.

Indicative.

ending in the Athematic and some

<sup>12</sup>This is only used in thematic

verbs as a 1st or 2nd Aorist Passive

Indicative; in athematic verbs as

Imperfect & Second Aorist Active

Athematic verbs may have η.

Participle Morphemes									
	Pre	esent	Ao	rist	Perfect				
	M/N	Fem.	M/N	Fem.	M/N	Fem			
Active	ντ	ουσα	ντ	σα	οτ	υια			
M/P	μεν	μεν	μεν	μεν	μεν	μεν			
Passive			ντ	σα					
Act 3-1-	3	M/P	2_1_2		Pac 3	1-1-3			

Infinitives									
	Present	1st Aorist	2 <sup>nd</sup> Aorist	Perfect					
Active	ειν*	σαι	ειν*	κεναι					
M/P	σθαι	σασθαι	σθαι	σθαι					
Passive		θηναι	ηναι						

\*Technically the ending is EV which contracts with the connecting vowel  $\epsilon$ .

### Stem Things

ιζω αζω stems ususaly end in a dental, e.g. δ ασσω stems usually end in a velar, e.g. χ, γ but  $\sigma\sigma$  was added to form the present.

 $\sigma\kappa$   $\iota\sigma\kappa$  are added to some roots to form the present tense.

## Athematic (ut verb) Rules

- 1. Reduplicate with ι in the Present & Imperfect.
- 2. Normally, no connecting vowel (thematic).
- 3. The stem vowel can lengthen, shorten, or drop out.
- 4. Most use κα as the Aorist & Perfect tense formative.

 $^1 Technically there is no ending. Instead there is an o connecting vowel. Because there is no ending, the o lengthens to an <math display="inline">\omega$  (Smyth §463a).

Verb Footnotes

<sup>2</sup>The connecting vowel here is  $\varepsilon$  but it has apparently lengthened to ει. Mounce and Smyth disagree on this matter. Smyth supposes it is  $\lambda \hat{\upsilon} \epsilon$ - $\sigma \iota$ , which contracts to  $\lambda \hat{\upsilon} \epsilon \iota$  and he imagines that a  $\varsigma$  has been added to give us λύεις (Smyth §463b). Mounce agrees with the development but thinks that the original sigma has switched places with the iota, a process known as metathesis (Mounce p. 134 fn 11).

 $^3$ The original ending was  $\tau\iota$  but the  $\tau$  dropped out. The original can be seen in εστι(ν) (Mounce p. 133, fn 8).

<sup>4</sup>For our purposes, the ει ending is formed from the ε connecting vowel and the t ending, although in the Perfect there is no t only a moveable v. There is no good technical explanation for how ει is formed since τι to σι would render η not ει (Mounce,

			now et is	tornica since tr to	y or would reliate if	not et (Mounee,			
			Indicative Mood Verbs						
			Tense			Passive			
			Present	$\bullet$ o/ $_{\varepsilon}$ +Pae	$\bullet$ $^{\rm o}/_{\varepsilon}$ +Pmpe				
nu may be added to	the end of both or	υσι(ν) and	1st Future	$\Box \sigma^{o}/_{\varepsilon} + Pae$	$\Box \sigma^{\rm o}/_{\epsilon} + Pme$	$\Box\theta\eta^{o}/_{\epsilon}$ +Pmpe			
•			2nd Future	$\blacktriangle^{o}/_{\epsilon}$ $\epsilon\sigma$ +Pae	$\blacktriangle$ εσ $^{\rm o}/_{\epsilon}$ +Pmpe	$\Delta \eta \sigma^{\rm o}/_{\epsilon} + Pmpe$			
• .		-	Liquid Future	$\square$ $\epsilon\sigma$ $^{o}/_{\epsilon}$ +Pae	$\square$ $\epsilon\sigma$ °/ $_{\epsilon}$ +Pmpe	$\Delta \eta o \gamma_{\epsilon} + 1 \text{ mpc}$			
ηι). In the NT, this	s form occurs only	in Lk.	Imperfect	$\varepsilon \bullet^{o}/_{\varepsilon} + Sae$	$\varepsilon \bullet ^{o}/_{\varepsilon} + Smpe$				
		other 2S	2nd Aorist	$\varepsilon \triangle^{o}/_{\varepsilon} + Sae$	$\varepsilon \blacktriangle^{o}/_{\varepsilon} + Sme$	ε <b>▲</b> η +Sae			
•	1	-	1st Aorist	εΟσα +Sae	εΟσα +Sae	εΟθη +Sae			
grew into use in all	the 1st Aorist form		Liquid Aorist	εOα +Sae	εOα +Sme	EOOH TSac			
	,	or with a	1st Perfect	<sup>RE</sup> ❖κα +Pae	<sup>RE</sup> ❖ +Pmpe				
ay be that the $\varepsilon$ is held over from the Perfect tense			2nd Perfect	<sup>RE</sup> ♦α +Pae	<sup>RE</sup> <b>◆</b> α +Pmpe				
,	• 0		1st Pluperfect	ε <sup>RE</sup> ❖κει +Sae	ε <sup>RE</sup> ♦+Smpe				
			2nd Pluperfect	ε <sup>RE</sup> ♦ει +Sae	ε <sup>RE</sup> ◆+Smpe				
out when it is intervo	ocalic and the o	ontracts with	Present						
_	*		1st Aorist	$O\sigma^{\omega}/_{\eta}$ +Pae	$O\sigma^{\omega}/_{\eta}$ +Pme	$O\theta^{\omega}/_{\eta}$ +Pae			
		is due to	2nd Aorist	$\blacktriangle^{\omega}/_{\eta}$ +Pae	$\blacktriangle^{\omega}/_{\eta}$ +Pme	<b>▲</b> η +Pae			
		ere		Optativo	e Mood Verbs				
Instead, the connect	ting vowel ε stand	s alone or	Present	●ot +Sae	●oi +Sm/pe				
	· /		Future	□σοι +Sae	□σοι +Sme	□θησοι +Sae			
the ending instead.	The o replaces α	(Smyth	1st Aorist	Οσαι +Sae	Οσαι +Sme	Oθει +Sae			
0 /			2nd Aorist	▲ot +Sae	▲oi +Sme	<b>≜</b> ει +Sae			
	and the M/P μι vert α, οι. Some charts lling of the Present a τηι). In the NT, this is and ὄψει only ha atives of contract vert a μ which converts The μ is one of the grew into use in all rmative (Smyth §46 the connecting vow y be that the ε is he form of the verb (cf. the same as with the corist and Future Paimply the eta from the connecting vow were send that the singular of the verb of the connecting vow were send that the form the connecting vow were send that the connecting vow the connecting vow were send that the connecting to our verbs σ remains. A phonetic change (Start 10 Technically, the Instead, the connecting instead. §669). With Contra	and the M/P $\mu\nu$ verbs, the sigma drop $\alpha$ , or. Some charts list - $\epsilon\nu$ as an alterding of the Present and Future M/P and $\mu\nu$ in the NT, this form occurs only that and $\mu\nu$ in the NT, this form occurs only that and $\mu\nu$ in the NT, this form occurs only that and $\mu\nu$ in the NT, this form occurs only that and $\mu\nu$ in the NT, this form occurs only that and $\mu\nu$ in the NT, this form occurs only that and $\mu\nu$ in the NT, this form occurs only that and $\mu\nu$ in the NT, this form occurs only that are in the $\mu\nu$ is one of the "sonant nasals" $\mu\nu$ , grew into use in all the 1st Aorist formative (Smyth §464a & 666). The connecting vowel $\nu$ stands alone by the that the $\nu$ is held over from the Porm of the verb (cf. Smyth §464c). The same as with the Imperative Active Aorist and Future Passives, no ending imply the eta from the tense formative $\mu\nu$ or is the ending but the outwhen it is intervocalic and the occurs connecting vowel, either $\nu$ or one is lengthening to $\nu$ or or $\nu$ respectively. Verbs $\nu$ remains. A $\nu$ between vowels phonetic change (Smyth §120).  10 Technically, there is no ending holds and the connecting vowel $\nu$ stand with a moveable nu $\nu$ ( $\nu$ ). In the Active singular of liquids, such as the 1st Acthe ending instead. The or replaces $\nu$ (§669). With Contract verbs, the contractive verbs verbs and the verb verbs verbs and the verb verbs v	s a $\mu$ which converts to a $\nu$ when preceded by a The $\mu$ is one of the "sonant nasals" $\lambda$ , $\mu$ , $\nu$ , $\rho$ . grew into use in all the 1st Aorist forms except rmative (Smyth §464a & 666). the connecting vowel $\epsilon$ stands alone or with a $\nu$ be that the $\epsilon$ is held over from the Perfect tense form of the verb (cf. Smyth §464c). That is not the same as with the Imperative Active. With the Aorist and Future Passives, no ending is used, imply the eta from the tense formative.  Technically, $\nu$ 0 is the ending but the $\nu$ 0 drops but when it is intervocalic and the $\nu$ 0 contracts with the connecting vowel, either $\nu$ 0 or and the result is lengthening to $\nu$ 0 or $\nu$ 0 respectively. In some $\mu$ 1 verbs $\nu$ 0 remains. A $\nu$ 0 between vowels is due to	but the v drops out because of the σ. The ore a v, has lengthened to ov to compensate nu may be added to the end of both $0v\sigma(v)$ and and the M/P $\mu\nu$ verbs, the sigma drops out and $\sigma$ , ov. Some charts list -ει as an alternate ending. Using of the Present and Future M/P and the Future $\sigma$ , ov. In the NT, this form occurs only in Lk. (ει and $\sigma$ ) we only have this form. All other 2S at ives of contract verbs ending in ε. Is a $\sigma$ which converts to a $\sigma$ when preceded by a The $\sigma$ is one of the "sonant nasals" $\sigma$ , $\sigma$ , $\sigma$ , $\sigma$ grew into use in all the 1st Aorist forms except rmative (Smyth §464a & 666). The connecting vowel ε stands alone or with a ybe that the ε is held over from the Perfect tense form of the verb (cf. Smyth §464c). That is not he same as with the Imperative Active. With the Aorist and Future Passives, no ending is used, imply the eta from the tense formative.  Technically, $\sigma$ is the ending but the $\sigma$ drops but when it is intervocalic and the $\sigma$ contracts with the connecting vowel, either ε $\sigma$ or and the result is lengthening to $\sigma$ or $\sigma$ respectively. In some $\sigma$ is lengthening to $\sigma$ or $\sigma$ respectively. In some $\sigma$ is lengthening to $\sigma$ or $\sigma$ respectively. In some $\sigma$ is lengthening to $\sigma$ or $\sigma$ respectively. In some $\sigma$ is lengthening to $\sigma$ or $\sigma$ respectively. In some $\sigma$ is lengthening to $\sigma$ or $\sigma$ respectively. In some $\sigma$ is the connecting vowel ε stands alone or with a moveable nu $\sigma$ between vowels is due to phonetic change (Smyth §120).  The change of the verb ( $\sigma$ is the ending here.  Instead, the connecting vowel ε stands alone or with a moveable nu $\sigma$ between vowels is due to phonetic change (Smyth §120).  The change of the verb ( $\sigma$ is the ending here.  Instead, the connecting vowel ε stands alone or with a moveable nu $\sigma$ between vowels is due to phonetic change (Smyth §120).  The change of the verb ( $\sigma$ is the ending here.  Instead, the connecting vowel ε stands alone or with a moveable nu $\sigma$ is the ending here.  Instead, the connecting vowel ε stands alone or wi	Lout the v drops out because of the σ. The ore a v, has lengthened to oυ to compensate nu may be added to the end of both oυσι(ν) and and the M/P $\mu\nu$ verbs, the sigma drops out and $\alpha$ , oι. Some charts list -ει as an alternate ending. lling of the Present and Future M/P and the Future $\mu\nu$ . In the NT, this form occurs only in Lk. (ει and ὄψει only have this form. All other 2S atives of contract verbs ending in ε. Is a $\mu\nu$ which converts to a $\nu\nu$ when preceded by a The $\mu\nu$ is one of the "sonant nasals" $\nu\nu$ , $\mu\nu$ , $\nu\nu$ , $\nu\nu$ grew into use in all the 1" Aorist forms except rmative (Smyth §464a & 666). That is not he sories as with the Imperative Active. With the corist and Future Passives, no ending is used, imply the eta from the tense formative.  Technically, σο is the ending but the σ drops but when it is intervocalic and the σ contracts with the connecting vowel, either ε or o and the result is lengthening to συ οr $\nu\nu$ respectively. In some $\mu\nu$ verbs σ remains. A σ between vowels is due to phonetic change (Smyth §120).  The connecting vowel ε stands alone or with a verbs σ remains. A σ between vowels is due to phonetic change (Smyth §120).  The connecting vowel ε stands alone or with a singular of liquids, such as the 1st Aorist, $\nu\nu$ is the ending instead. The o replaces $\nu\nu$ (Smyth §669). With Contract verbs, the contract vowel and $\nu\nu$ is the ending instead. The or replaces $\nu\nu$ (Smyth §669). With Contract verbs, the contract vowel and $\nu\nu$ is the ending instead. The or replaces $\nu\nu$ (Smyth §669). With Contract verbs, the contract vowel and $\nu\nu$ is the ending instead. The or replaces $\nu\nu$ (Smyth §669). With Contract verbs, the contract vowel and $\nu\nu$ is the ending instead. The or replaces $\nu\nu$ i	but the v drops out because of the $\sigma$ . The ore a v, has lengthened to ou to compensate nu may be added to the end of both out(v) and and the M/P $\mu$ verbs, the sigma drops out and $\alpha$ , or. Some charts list - $\epsilon$ 1 as an alternate endingling of the Present and Future M/P and the Future int). In the NT, this form occurs only in Lk. for and $\delta$ 1 and $\delta$ 2 and $\delta$ 3 are and $\delta$ 4 and $\delta$ 4 and $\delta$ 5 are and $\delta$ 5 are an alternate endingling of the Present and Future M/P and the Future int). In the NT, this form occurs only in Lk. for and $\delta$ 4 and $\delta$ 5 are and $\delta$ 6 are an alternate endingling of the Present and Future Passives of contract verbs ending in $\epsilon$ 5. The $\delta$ 6 are an alternate ending in $\delta$ 6 and $\delta$ 6 are an alternate ending into over only have this form. All other 2S atives of contract verbs ending in $\epsilon$ 6. The $\delta$ 6 are an alternate ending in $\delta$ 7 and $\delta$ 8 are an alternate ending in $\delta$ 9 and $\delta$ 9 are an alternate ending ingling of the Present and Future Passives, no ending in $\delta$ 8 are an alternate ending in $\delta$ 9 and $\delta$ 9 are an alternate ending in $\delta$ 9 and $\delta$ 9 and $\delta$ 9 are an alternate ending in $\delta$ 9 and $\delta$ 9 are an alternate ending ingling for $\delta$ 9 and $\delta$ 9 are an alternate ending in $\delta$ 9 and $\delta$ 9 are an alternate ending in $\delta$ 9 and $\delta$ 9 and $\delta$ 9 are an alternate ending in $\delta$ 9 and $\delta$ 9 are an alternate ending in $\delta$ 9 and $\delta$ 9 are an alternate ending in $\delta$ 9 and $\delta$ 9 are an alternate ending in $\delta$ 9 and $\delta$ 9 are an alternate ending in $\delta$ 9 and $\delta$ 9 are an alternate ending ingular for industry and the future into in the original and in the future into interveloped in $\delta$ 9 and $\delta$ 9 are an alternate ending instead. The original and in the future into interveloped in $\delta$ 9 and $\delta$ 9 are an alternate ending interveloped in $\delta$ 9 and $\delta$ 9 are an alternate ending interveloped in $\delta$ 9 and $\delta$ 9 are an alternate ending interveloped in $\delta$ 9 and $\delta$ 9 are an alternate ending interveloped in $\delta$ 9 and $\delta$ 9 are an alternate ending interveloped in $\delta$ 9 and $\delta$ 9 are anothed in $\delta$ 9 and $\delta$ 9 are an alternate ending interveloped in $\delta$			

- Shapes represent verb stems. Present & Imperfect use the same stem.
- Contract verbs end in  $\alpha$ .  $\epsilon$ . or  $\sigma$ .
- Bold outlined forms take secondary endings.
- **1** The Connecting Vowel is o before  $\mu$  or  $\nu$ , otherwise  $\epsilon$ .
- 2 Imperfects & Aorists augment, Perfects reduplicate. Augmentation ceases outside of the Indicative mood.
- **3**The Indicative mood is negated by oυ, ουκ, and ουχ; everything else by μη. The strongest form of negation is ov μη.
- On questions, oυ expects a yes answer, μη no.
- •Possible Subjunctive Clue words: ἵνα, ἐάν (εἰ + ἄν), ὅταν (ὅτε +

ἄν), ὄς ἄν, οπου αν, εως, εως ἄν.

indicative wiood verb rense rormatives					
Future		Aorist		Perfect	Pluperfect
Act	Pas	Act	Pas	Act	Act
σ, εσ	θησ, ησ	σα, α	θη, η	κα, α	κει, ει

Indicative Mond Verb Tense Formative

- 5. Reduplicates with ε in the Perfect.