

Liber Loagaeth

or

Liber Mysteriorum, Sextus et Sanctus

Ms.A.3189

This is the original Ms. in Edward Kelley's handwriting. It formerly belonged to the Cottonian collection as appears by a note of Ashmoles in Ms. Sloane 3677. f. 328*. -JM

A copy of this Book may be found also in Ms. Sloane 2599. -JM

See Ms. Sloane 3188, fol. 80 for some account of the writing of this volume, die 6 April 1583. -JM

...bought this booke of Dr. Biggs for a Guinea

The Book of Enoch,

revealed to Dr. John Dee by the Angels.

This writing begining (not at [Arney Vah] etc. but) at Oxar Varmol is the 2nd Page of the first leaf of the famous Book shown in the stone, which consisted of 49 lines or Rows & every Row of 49 words or letters. The first 40 of this Page have a word in every little square which could not wel be contained in the little Cells of a square table in this Book - Therefore they are writ thus at large as you see. But the 9 last Rows of this Page had but one Letter a piece, & are accordingly set down at the end hereof, pag. 5. All the other leaves of that Book had but a single Letter in each little square & so they are set down, as here after follows in this Book. Vide l.5 Ms. pag. 142, 143 etc.

The first Page of that first Leaf is not (it ought to be) all transcribed here before this 2nd Page save only the 49, or last, Row beginning (Arney Vah etc.) But they may be seen (& (if thought fit) copied out thence) in l. 5to Ms. p. 150, 151, etc. [The preceding note is by Elias Ashmole.]

Liber Mysteriorum, Sextus et Sanctus

Leaf 1a [zuresk od adaph mal zez geno au marlan oh muzpa]

Leaf 1b [Oxar varmol pan sampas os al pans orney andsu]

Leaf 2a alla opnay qviemmah.

Leaf 2b zvrebth aho dan lanfal cramza

Leaf 3a pandobna ox adroh azimcholdrux.

Leaf 3b dlod Alged zvrem. ["dlod allged zvrām"]

Leaf 4a Zvbla ox arnogan Algers aclo.

Leaf 4b Danfal gest Axamph acrosta.

Leaf 5a Gonzahoh alch arge oho Adanch.

Leaf 5b Zvchastors plohodmax argednon acho

Leaf 6a Sancgonfal aldex, Ave goh adatqvan,

Leaf 6b pvrcha ges maxgem adroth vaxox ahó

Leaf 7a Dam lethgath onzar avoxalgeth

Leaf 7b chvmaxchaberexmapha

Leaf 8a algebadreth

Leaf 8b Oylzongs

Leaf 9a pagesgem

Leaf 9b Avallacax

Leaf 10a Gorvemgemps

Leaf 10b Bacap Laffos

Leaf 11a Ozimba londonrh

Leaf 11b ylchvzzapg

Leaf 12a Nopham

Leaf 12b Signeh gax

Leaf 13a t-lallaah gethnoh

Leaf 13b Iaialgh lercol zinrox

Leaf 14a Pincal vexlan

Leaf 14b Phin potagar giron

Leaf 15a Se ger pcpalph

Leaf 15b Oroh Zvn.compvxoh

Leaf 16a Dadavar gedrong

Leaf 16b varahhatraglax pligeo
Leaf 17a Hidrahah glazipvigel
Leaf 17b Engidexol; neolchiph
Leaf 18a Polacax cvbagod
Leaf 18b Zad, ron anchal
Leaf 19a Gedmarg alpon
Leaf 19b Bvzalg long arnap
Leaf 20a Zicha lezach.
Leaf 20b Drem phingel oxah oho
Leaf 21a algonzib virbalox
Leaf 21b Avriz ommaphily geld
Leaf 22a Cehergol naoal
Leaf 22b Fál mexicamps vrom
Leaf 23a Conar vomfagal
Leaf 23b Toxarxh nerhoh gel podnon
Leaf 24a Zichidpha lvziph
Leaf 24b Nervag pranclan
Leaf 25a Demphoz prang oho
Leaf 25b Harodan lempric dohoh
Leaf 26a Chy pled sagnaroph
Leaf 26b Draxph intayfalg
Leaf 27a Vlnen razo vilcomb
Leaf 27b Vincal leorna rvh
Leaf 28a Dababel gel zozaah
Leaf 28b Larvh gohonp babbabor
Leaf 29a ["The first of the leaves"] Famfax lep axax.
Leaf 29b Zirzach bvmazon.
Leaf 30a Tar, vin gabax orho.
Leaf 30b Glonz alnoptd.
Leaf 31a Gemnarv Hvncol.
Leaf 31b Rynh zichzor chalan.
Leaf 32a yayger balpaoeh.
Leaf 32b Car vanal geldons.
Leaf 33a Vio nilg onpho.
Leaf 33b Toxhencol ylnorox ziborh.
Leaf 34a Balvomph chiphan.
Leaf 34b Vingelg laxih parcan.
Leaf 35a Zvda vig pancar.
Leaf 35b Dexvlnq chirony gavv.
Leaf 36a Qnabazeb vil pvdar.
Leaf 36b Xanpa phaphingeth.
Leaf 37a Ronlox bapvabap orh.
Leaf 37b Calbahhah genrox.

Leaf 38a Dohvnam gethgol axah.
Leaf 38b Vantavong nargax.
Leaf 39a Pvlgaaο ner gisch.
Leaf 39b Archi septh lorox.
Leaf 40a Damponpha nexο gel.
Leaf 40b Dexph geld onchen.
Leaf 41a Ellaxοr Natoglan
Leaf 41b Fam filgisch larvouch
Leaf 42a Cemgealg ralphos
Leaf 42b Zodagrap zilpob
Leaf 43a Necprilga lvpvarn
Leaf 43b Depsah onge phialox
Leaf 44a Nelziar pol dolgon
Leaf 44b Parni volchemph
Leaf 45a Acvirzilg chiparal
Leaf 45b Alged on chiprálax
Leaf 46a Clarn nancal
Leaf 46b Lexrox pingh lardol
Leaf 47a Zvrzvh genvox
Leaf 47b Chiromonph zarchan olinorg
Leaf 48a Calgs sedph panglox
Leaf 48b Bapporgel bvrioldepnay

Tables of Soyma:

The first table [ndizbdizbdiz]

2d Table [Retdixbdixbdix]

3d. Table [izbdizbdizbdiz / ohGkAbdizbdiZb]

4th Table [izbdizbdizbdiz / sbGkAbdizbdizb]

Runar's translation of Liber Loagaeth excerpts

This page contains Runar's translation work from Liber Loagaeth, Table 1, rows 5, 2, and 15. For the translation of row 2 he has used brackets () for words added for ease of reading, [] for alternative words, and " " for words in doubt. Table 1, row 2 was originally posted to enochian-1.

Row 5

Mabeth ar mikes achap pax mara geduth alides orcanor manch arseth.
 Olontax ar geban vox portex ah pamo.
 Agèmaton burise ganport. Vdrios pasch. Machel len arvin zembuges. vox mara.
 gons ihehusch dah parsodan maah alsplan donglses adipr aginot. Archad dons
 a dax van famlet a dex arge pa gens.

Ma beth ! ar mikes achaph. Pax mara geduth alides
Fall Betrayal ! Protection is great for mice. Thou the betrayed that shivers in the precence
orcanor manch arseth. Olontax ar ge ban vox
of the son of night lives full time. Whenever the protection of our holyness comes between
portex ah pamo; agèmaton burise ganport.
the desire of freedom; arising are the minor and secondary desires.
Vdrios pasch Machel len arvin : zembuges !
When wanting the revelation of the mighty one; the action is as follows: Insist !
Vox mara.
Between treason.
Gons ihehusch dah parsodan maah alsplan donglses
The faith in the Seat of Mercy indulges the love of power; but as the incidents runs through
adipr aginot, archad dons a dax van famlet a dex
the invisible Fire takes seat, entering the ruler as the 49 neither scaring nor as the terrifying one,
arge pa gens.
conquering is so being done.

Row 2

Ihehusch gronadox arden, o na gempalo mikasman vandres orda bevegiah noz plig nase
 zamponon aneph. Ophad a medox marune gena pras no dasmat vorts manget a deune
 dampf. Naxt OS vandeminaxat orophas vor minodal amudas ger pa o dax zum ban sez
 ordan pres umblosda vorx nadon. Patrophes undes adon ganebus ihehudz.

Ihehusch gronadox arden,
The Mercy seat featuring "the holy one",
o na gempalo mikasman vandres

calling forth that rejoicing (and) mighty Governor of fortitude (that)
orda bevegiah noz plig nase zamponon aneph.
forever praises the word emanating from his destructive war of neverness [such as never was]
Ophad a medox marune gena pras;
Hail (to) the Grail (whose) torment becomes feigned;
no das- mat vorts manget a deune damph.
becoming that (which is) blinded, over the sacrifice of the precious spirit.
Naxt OS vandeminaxat orophas
Then the twelve secrets of the Zodiack becomes revealed
vor minodal amudas
over the prepared masters,
ger pa o dax zum ban sez ordan ma
Death is called, the 49 most brilliant, and the holy Axe eternally falls;
pres umblosda vorx na don.
"fire" (and) bitterness over the Ruler.
Patrophes undes a-don ganebus ihehudz.
Devastating (but) accepting (is) the Rulers sinister experience of the Mercy Seat.

Row 15

Mika surascha para te gàmmes adrios NA danos.

Vra lad pacad ur gesme crus a prasep ed a palse nax varno zum.

Zan cu asdom baged urmigar orch phaphes ustra nox affod masco gax camles
 unsanba a oh la gras par quas consa qual lat gemdax tantat; ba vod talpah ian.

Mika surascha para te gàmmes adrios
Mighty willagent, flaming as a wild dance throughout the universe,
NA danos.
the Trinity obeys you.
Vra lad pacad ur gesme crus a prasep
Seeing the One in three being as they are, the One smiles , paints the sigil of
ed a palse nax varno zum.
Unity : The formulated name of the seer, at heart.

Zan cu asdom baged urmigar orch phaphes

The finger touches gladly any doubt, portrayed then are also passion wealth and

ustra nox affod masco gax camles

willingness upon Him who is recovering. Beholding this will are whole persons

unsanba a oh la gras par quas consa

unruly as the old One, and the moon flaming within olives, perfected in the

qual lat gemdax tantat; ba vod

creator, exercising their praise of multiplication, taught; but learnt by

talpah ian.

experience, the excess you are in your Lordship.

Enochian Tables and Seals

Much of the innate beauty of the Enochian System lies in its intricate tables and seals. These are what holds up the notion that the whole system was not dictated to Dee straight from the imagination of Kelley. Unfortunately, it does not deny the question that the system was a construct of Dee and Kelley in cohorts, or the obscure notion that Kelley never worked with Dee, and Dee created it all himself. Either way, these still form a beautiful magickal and mathematical system.

While the angels dictated these tables and seals, Dee was constantly being tested on his understanding of their creation. This is why detailed analysis of them has been provided here, so that the reader not only gains a magickal symbol, but also an understanding of it. This is where the true power in Magick comes, not from a powerful symbol, but from an understanding of it. And in Dee's words: "Who does not understand, should either learn, or be silent."

The information provided here contain samples of Tables and drawings from Dee's diaries, along with explanations of their patterning and creations. Given the vast amount of information provided by Dee in his life, I am only able to provide samples at the moment, and as I am able to come into possession of better copies, I will post them here.

Sigillum Dei Aemaeth- The Seal of God's truth given to Dee by the Archangel Michael in an early seance. Pictures and method of creation.

Table I (20 March 1582)- A simple table containing angelic names which is used in the Sigillum Dei Aemeth

Table II (21 March 1582)- A simple table containing angelic names which is used in the Sigillum Dei Aemeth

Sample of the Tables or the Book of Enoch- Pagesgem - One of Dee's 49x49 character tables from the Book of Enoch, sometimes known as the Liber Logaeth. Downloadable text tables, and explanation of symmetry and structure. Incorrectly named in Casaubon's work as "Pagesgem Baccap Laffos"- which is the two tables of that leaf.

The Elemental Table- A four piece table containing the Characteres Symmetrici, given to Dee by the Archangel Raphael. Includes a Shockwave interactive version of the table, from which the information from the

Tabula Collecta:49 Angelorum Bonorum- Table containing 49 ministers of God, original ciphered table and reformed deciphered table.

Numerus Primus- 7 Tables which are later used in the Holy Table or "Table of Union". These tables were worn by angels in the April 28 1582 séance.

The Holy Table- A Table from Meric Casaubon's *John Dee: A True and faithful revelation...* Unfortunately there is little explanation as to what it is.

The Body of Nalvage- A table of letters given to Dee and Kelley in an early séance which is "The Body of Nalvage" one of the angels.

The Liber Loagaeth- The 49x49 Tables which consumed much of Dee's time during the latter seances. A masterpiece work that is still yet to be deciphered or adequately explained.

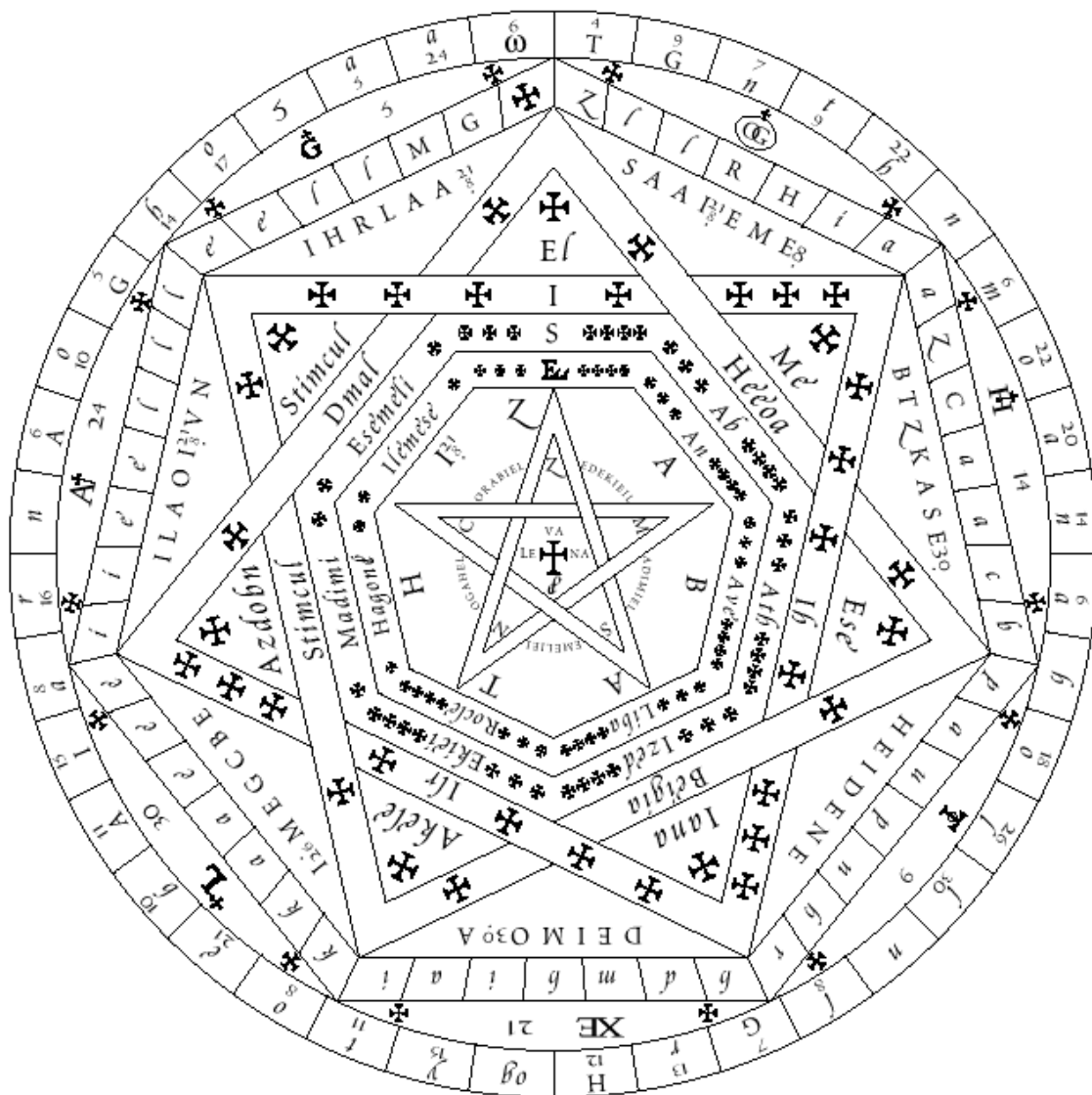


Table I- 20 March 1582.

This table is really simple cipher which contains straight up, the names of commonly known angels. The table was given to Kelley through the shewstone as such:

Z l l R H i a
a Z C a a c b
p a u p n h r
h d m h i a i
k k a a e e e
i i e e l l l
e e l l M G †

Which, when read vertically from the top left hand corner gives the names: Zaphkiel, Zadkiel, Cumael, Raphael, Haniel, Michael and Gabriel, with a cruciform in the final square. All of these names were contained in the works of Henry Cornelius Agrippa or Peter d'Abano, which Dee noted in the margin. This was also a simple ciphering technique which was around at the time of Dee. At one stage he even spoke of such ciphers being able to be cracked by men of low intellect!

These lines- horizontally, appear again in the Sigillum Dei Aemeth, in the outer heptagon.

Table II- 21 March 1582.

This table a slightly more difficult cipher which contains the names of commonly known angels. The table was given to Kelley through the shewstone as such:

S	A	A	I ²¹ ₈	E	M	E ⁸
B	T	Z	K	A	S	E ³⁰
H	E	I	D	E	N	E
D	E	I	M	O	30	A
I ²⁶	M	E	G	C	B	E
I	L	A	O	I ²¹ ₈	V	N
I	H	R	L	A	A	²¹ ₈

In this table, the numbers 8, 26 and 30 are read as L, and 21 is read as E. The table is read diagonally (in a down and right manner) from the top left hand corner gives the names: Sabathiel, Zedekiel, Madimiel, Semiel, Nogahel, Corabiel, and Levanael. All of these names were contained in the works of Henry Cornelius Agrippa or Peter d'Abano, which Dee noted in the margin.

These lines- horizontally, appear again in the Sigillum Dei Aemeth, between the outer heptagon and the septacle.

What is of more note here, is the names of the 7 Women, Men, Wenches and Boys, which Dee further read from the table. These are read diagonally from each corner, and I am sure that the reader will be able to follow along without specific instructions. These were then given a planetary association. In fact, these can also be found in the middle section of the Sigillum Dei Aemeth. The Names are as such:

Planet 7 Women 7 Men 7 Wenches 7 Boys

Sun EL I S E

Moon ME IH AB AN

Venus ESE ILR ATH AVE

Jupiter IANA DMAL IZED LIBA

Mars AKELE HEEOA EKIEI ROCLE

Mercury AZDOBN BEIGIA MADIMI HAGONEL

Saturn STIMCVL STIMCVL ESEMELI ILEMESE

Of note here is the Wench of Mercury- Madimi. This spirit appeared in many of Dee and Kelley's seances, speaking of sisters and playing around in Dee's library. She is one of the spirits who is believed to have been seen by Dee, which are a truly rare breed! That claim is not fully substantiated though.

1	2	3	4	5	6	7	s	e	d	n	a	c	h	a	n	z	a	c	l	a	n	z	a	b	v	l	a	c	h	o	d	a	n	g	a	h	z	v	c	h	a	2	3	4	5	6	7	8	
2	1	3	4	5	6	7	l	a	t	h	n	a	c	l	o	n	g	a	t	o	x	a	r	d	n	a	c	h	a	p	h	n	o	d	o	l	p	h	a	h	o	3	2	4	5	6	7	8	
3	2	1	4	5	6	7	a	r	c	h	a	n	v	a	h	g	e	n	o	d	a	l	z	a	c	h	e	n	a	c	h	a	n	z	a	c	l	a	d	o	n	4	3	2	5	6	7	8	
4	3	2	1	5	6	7	o	r	g	e	d	n	a	c	h	a	l	z	a	n	c	h	a	l	a	b	v	z	a	c	h	e	f	n	o	x	a	d	n	a	r	5	4	3	2	6	7	8	
5	4	3	2	1	6	7	v	o	l	t	i	b	l	a	h	n	o	x	d	a	r	g	e	p	h	a	l	d	v	r	g	a	n	z	a	c	h	y	o	x	a	6	5	4	3	2	7	8	
6	5	4	3	2	1	7	p	l	a	z	e	n	g	?	t	h	a	l	d	e	x	t	o	h	v	o	r	t	h	a	n	g	e	p	h	a	d	o	n	g	e	7	6	5	4	3	2	8	
7	6	5	4	3	2	1	n	a	z	a	l	d	a	h	z	a	n	c	h	a	n	z	a	o	l	d	a	n	g	a	l	a	h	v	o	n	r	o	x	a	p	8	7	6	5	4	3	2	
a	x	a	r	m	a	r	l	o	h	n	o	t	a	x	v	a	r	g	e	m	n	a	t	o	p	h	a	d	o	l	g	e	m	p	h	a	d	o	n	c	h	a	d	o	n	z	a	h	
p	a	r	c	h	e	p	h	n	o	c	h	a	d	n	a	d	o	l	c	l	a	z	a	n	g	e	h	o	z	a	d	m	a	c	h	v	a	l	d	e	h	a	d	a	r	g	e	d	
v	o	l	z	a	n	g	e	p	h	a	c	l	a	n	z	a	c	n	o	x	a	r	n	a	h	v	o	h	a	d	r	o	n	c	p	y	a	d	n	a	h	v	o	t	a	r	g	e	
p	r	a	g	e	d	n	o	l	g	a	n	c	l	a	o	x	a	r	n	a	c	h	o	v	o	n	g	a	n	g	a	p	r	a	h	l	o	d	n	a	x	o	r	g	e	h			
v	v	n	z	a	n	g	e	p	h	a	z	o	l	m	a	h	z	v	r	e	b	l	o	h	a	c	l	a	x	n	o	c	h	a	p	a	r	h	l	o	d	n	s	a	n	o	l	s	a
v	a	x	a	r	g	e	m	p	a	d	o	l	z	a	c	h	e	p	h	a	x	a	r	d	r	a	h	g	e	d	n	a	c	l	z	n	v	a	r	t	c	s	n	o	c	l	a	r	
r	a	d	o	x	g	g	r	a	z	a	c	l	a	n	v	o	n	g	i	b	l	e	s	a	d	r	v	o	n	g	a	h	v	o	l	a	i	b	l	o	a	h	a	c	h	a	r	s	e
a	l	g	e	m	e	n	o	h	a	d	n	a	c	o	d	v	o	n	o	x	8	7	6	5	4	3	2	1	0	e	d	a	e	o	n	o	d	o	n	z	a	c	h	a	d	n	a	c	a
a	e	v	a	r	g	e	d	n	o	p	a	h	o	a	d	r	a	s	7	8	l	B	A	G	A	F	A	5	6	c	a	g	a	f	v	l	c	h	a	p	n	a	d	o	x	a	r	d	
d	e	l	c	h	a	n	s	a	n	o	x	a	h	p	e	a	s	6	l	B	A	G	A	E	A	l	B	A	G	7	a	l	g	h	a	o	m	f	a	n	g	e	t	o	x	a	g	e	
v	o	r	g	e	m	v	a	g	e	h	a	d	o	t	o	p	5	A	6	5	4	3	2	1	7	6	5	4	F	A	8	o	f	a	p	l	o	t	h	a	n	g	e	t	h	n	o	g	a
a	c	l	a	d	a	x	v	a	r	t	e	o	h	n	a	4	l	A	6	5	4	3	2	1	7	6	5	4	A	G	A	9	t	a	o	r	a	d	a	n	t	a	g	e	l	d	a	a	
a	r	h	e	n	?n	e	h	o	p	h	a	h	a	3	F	6	6	6	5	4	3	2	1	7	6	5	4	3	3	A	1	b	a	l	z	a	n	c	h	a	d	a	x	o	r	g			
n	o	l	z	a	d	a	d	r	a	x	p	a	h	x	2	A	7	7	7	a	u	e	a	u	a	x	a	r	7	7	7	l	2	o	n	l	b	v	z	a	n	c	h	a	h	o	d	a	
z	y	b	l	a	c	h	e	p	h	a	n	g	o	1	A	1	1	1	5	B	n	a	B	c	v	B	l	6	6	6	B	A	3	v	o	b	v	l	a	g	e	s	m	a	c	o	h		
a	l	g	a	d	n	a	c	l	a	n	s	a	m	9	l	B	2	2	2	o	o	O	d	O	a	O	a	m	5	5	5	A	B	4	v	a	n	d	a	b	r	a	h	a	d	a	m	a	c
d	o	m	z	i	b	l	a	d	a	x	v	r	o	8	B	A	3	3	3	g	x	a	R	R	R	e	t	h	4	4	4	G	A	5	n	l	z	a	n	g	e	p	h	a	x	a	r	g	
a	l	g	e	d	n	o	p	e	l	g	e	t	a	7	A	G	4	4	4	a	B	O	R	N	O	G	O	d	3	3	3	A	G	6	g	o	c	h	a	n	a	l	d	a	p	h	n	a	
p	a	g	e	n	t	a	p	h	e	n	g	o	h	6	G	A	5	5	5	n	g	a	O	O	O	p	h	a	2	2	2	F	A	7	n	c	o	n	g	e	p	o	r	a	x	a	r	g	
a	l	z	a	d	c	h	a	r	d	a	x	o	l	5	A	F	6	6	6	d	G	n	G	a	G	a	q	1	1	1	A	F	8	o	o	l	a	s	l	a	p	h	a	n	a	g	l		
p	l	v	d	n	a	c	h	a	n	p	o	o	n	4	F	A	7	7	7	a	O	o	x	O	a	m	O	a	7	7	7	l	A	9	o	n	p	h	a	l	g	e	p	h	a	l	z	e	
o	r	c	h	a	n	z	a	n	d	a	l	a	l	3	l	1	1	1	q	a	n	t	a	l	g	e	t	6	6	6	B	1	a	n	c	a	r	d	a	x	a	d	m	a	c	h	e		
o	n	d	i	m	a	c	h	e	?d	o	h	o	x	2	B	2	2	2	3	4	5	6	7	1	2	3	4	5	5	A	2	c	o	e	o	p	l	a	x	v	a	r	g	e	t	a			
a	p	z	a	n	e	s	o	d	a	h	o	l	o	n	1	B	F	2	3	4	5	6	7	1	2	3	4	5	A	3	o	d	p	l	z	a	c	h	a	n	z	a	n	g	e	h			
m	y	c	l	a	h	h	v	d	r	a	b	a	h	o	n	a	o	A	2	3	4	5	6	7	1	2	3	4	5	F	4	a	n	a	l	o	l	h	a	d	g	a	n	v	e	r	t	e	
g	o	n	g	e	r	g	a	l	a	x	a	r	o	t	a	x	e	B	A	G	A	E	A	l	B	A	G	l	5	o	x	d	o	g	z	a	d	n	a	a	h	z	i	b	l	a	h		
f	a	n	t	o	g	a	p	v	a	r	g	e	m	a	l	t	a	z	7	6	A	E	A	l	B	A	G	7	6	e	l	a	n	g	c	o	l	z	a	d	n	a	h	g	e	b	a	r	
a	r	l	a	g	v	a	g	e	p	h	a	d	e	d	n	o	c	l	a	d	5	4	3	2	1	9	8	f	a	d	o	x	a	h	r	h	o	d	n	o	c	a	p	v	a	r	g	o	
n	o	l	z	a	d	n	a	c	h	e	p	h	a	l	d	e	d	m	a	c	h	e	o	l	c	h	a	d	n	a	d	o	x	a	h	n	e	p	a	c	h	e	l	d	a	x	o	r	
v	a	l	g	e	s	a	d	r	v	x	a	d	n	o	g	i	a	p	h	z	v	g	a	l	g	a	b	l	o	n	z	a	n	c	a	a	n	a	c	n	a	r	s	a	n	o	l	s	
a	p	r	a	n	s	a	n	a	d	a	r	h	o	l	z	a	d	n	a	h	a	c	h	i	r	a	h	d	o	x	a	l	d	g	a	h	z	a	n	g	e	p	h	n	o	x			
o	r	c	l	a	d	o	r	v	o	r	b	l	e	m	a	r	a	d	o	n	t	a	g	e	l	a	x	a	r	o	h	p	r	o	n	a	l	g	a	r	o	z	a	r	g	e	f	a	
l	a	x	a	r	d	r	o	a	m	n	a	c	h	o	n	d	a	n	c	i	a	x	a	z	v	r	b	b	a	l	o	h	a	d	e	o	d	a	x	o	r	g	e	p	h	a	l	s	
a	r	g	l	a	d	r	o	a	d	r	o	n	c	l	a	n	z	a	d	i	n	c	h	a	a	d	r	a	n	c	h	l	o	g	h	d	g	a	o	c	h	a	d	n	a	c	h	o	
v	a	l	c	h	e	p	n	a	d	o	x	a	r	g	e	m	p	n	a	p	h	e	a	l	b	v	n	d	a	g	e	d	l	o	h	a	x	a	r	g	e	h	n	o	t	a	l	s	
2	3	4	5	6	7	8	h	a	n	g	l	i	f	a	f	r	a	n	g	e	h	n	o	x	a	l	d	e	h	g	e	b	l	a	d	a	h	o	r	h	a	7	6	5	4	3	2	1	
3	2	4	5	6	7	8	l	o	a	d	a	n	f	a	d	o	n	t	a	l	m	a	h	o	c	h	a	n	f	a	n	o	x	a	l	g	e	t	h	v	o	6	5	4	3	2	1	7	
4	3	2	5	6	7	8	g	e	m	p	n	a	d	o	x	a	r	c	h	a	n	s	a	n	a	p	v	r	a	d	z	d	n	o	l	a	t	o	n	s	a	5	4	3	2	1	6	7	
5	4	3	2	6	7	8	e	n	g	l	o	r	z	a	b	m	v	c	h	a	a	p	h	i	n	o	d	a	l	z	a	d	c	h	a	r	z	a	h	o	d	4	3	2					