23. scoured again	w. heresiarch
24. pertaining to looking	x. anabaptist
25. pertaining to (things) against rotting	y. palimpsest
26. pertaining to being alive	z. psoriasis

## Lesson 6

### **NUMERALS**

Many kinds of numbers exist. In Greek, the main groups of numbers are 'cardinal' numbers (1, 2, 3, 4, ...) and 'ordinal' numbers (first, second, third, ...). Other sorts of numbers include fractions, unities (e.g. 'threesome,' ' foursome'), and multiplicatives (e.g. 'twofold,' 'tenfold').

Chemistry uses Greek numbers extensively, both in names for compounds and in crystallography. In fact, many Greek numbers found nowhere else in English occur in chemical terms, but only a few are included in the exercises below.

While these are quite, different from a previous lesson's prefixes, they occur by far most frequently before roots.

Greek Root	Meaning	Examples in English (please fill in at least two examples)
arithm(e)-	number, to count	
olig-	few	
poly-	many	To proceed and additional of the Annual Annual Process of the Annu
ochl-	crowd, mob	
hemi-	half	
hen-	one (among others)	
mon-	one only, alone	procession (CD) = 10 to indicate the extraction of the transfer of the extraction of
hapl-	single	
prot-	first	The state of the s
proter-	former, "firster" (an illogical comparative)	

dy-	two	
dipl-	double	THE STATE OF THE PROPERTY OF T
di-	twice	The second secon
dich-	in two	ASSESSMENT OF THE PROPERTY OF
tri-	three	
tetra-	four	
penta-	five	
hexa-	six	
hepta-	seven	The second of th
octo-/octa-	eight	
ennea-	nine	A CONTRACTOR OF THE PROPERTY O
deca-/deka-	ten	
hendeca-	eleven	
dodeca-	twelve	29 JANAGOSAS APP OF Remarkable subsidiation demonstrates the control of the contr
tris-kai-deka-	thirteen	
icosa-	twenty	
hecaton-/hect-	hundred	TO POTENTIAL DESIGNATION OF THE POTENTIAL OF T
kil-	thousand	
myria-	ten thousand, countless	

#### Exercises:

- 1. Why are the 'cardinal' and 'ordinal' numbers so called?
- 2. Hints for filling in the right-hand column above:
  - o Have fun: try to find out-of-the-way derivatives.
  - o Feel free to use words in the exercises below!
  - o -ad, -arch(y), -gon, -hedr-, and -meter are often combined with numbers.
- 3. Look up and differentiate between the following:
  - o monotheism
  - o polytheism
  - o henotheist

- o hylozoism
- o atheism
- o anthropotheism
- o autotheism
- o bitheism
- o ditheism
- o dyotheism
- o tritheism
- o tetratheism
- o pantheism
- o cosmotheism
- o panentheism
- o psychotheism
- o zootheism
- 4. Why is there no Greek word for "zero"? Look up the etymologies of the following words:
  - zero
  - cipher
  - algebra
  - average
  - algol
  - algorithm
  - o Why do we have "Arabic numerals"?
  - o Does Arabic currently use "Arabic numerals"?
- 5. Identify the etymological elements of *hecatomb*, *polyp*, and *ink*. What is the phenomenon those words share called? Can you think of further examples of it?
- 6. Investigate the etymologies of the following:

diatom	migraine monolith	
pentathlon	decathlete octagon	
diphycercal	protocol	triglyph
decade	heptahedron	myriapod
pentecost	tesseract	kilogram
hyphen	diatessaron	chiliad
hendiadys	trapeze	deuterium
triskaidekaphobia	adelphic	hectare
hentriacontane	unnilpentium	icosasphere

heneicosane	dean	deuteranopia
triakisoctahedrom	epitrite	hapax
trichotomy	hemiola	dilemma
tetra	tetrapla	proterozoic
penteconter	trireme	protozoic
eicosapentaenoic	docosahexaenoic	alpha-linolenic

7. What's in a name? Find the meaning of the following and say how it developed (these have nothing to do with numbers):

1. huguenot	8. lesbian
3. vulcanize	10. lynch
4. magnet	11. sandwich
5. maudlin	12. gerrymander
6. meander	13. masochist
7. solon	14. draconian

8. What's the difference between a *perissodactylous* animal and an *artiodactylous* animal?

# Lesson 7

## **Colors and Metals**

Greek Root	English meaning	Examples (fill in a few examples for each)
chrom-, chromat-	color	
chro-	color (of skin)	
chlor-	yellowish green	With-Bird for the 1-st-passage and a responsible and a separate an
cirrh-	orange	
cyan-	blue	
erythr-	red	THE PROPERTY AND ADDRESS OF THE PROPERTY OF T
glauc-	bluish green	
iod-	violet	