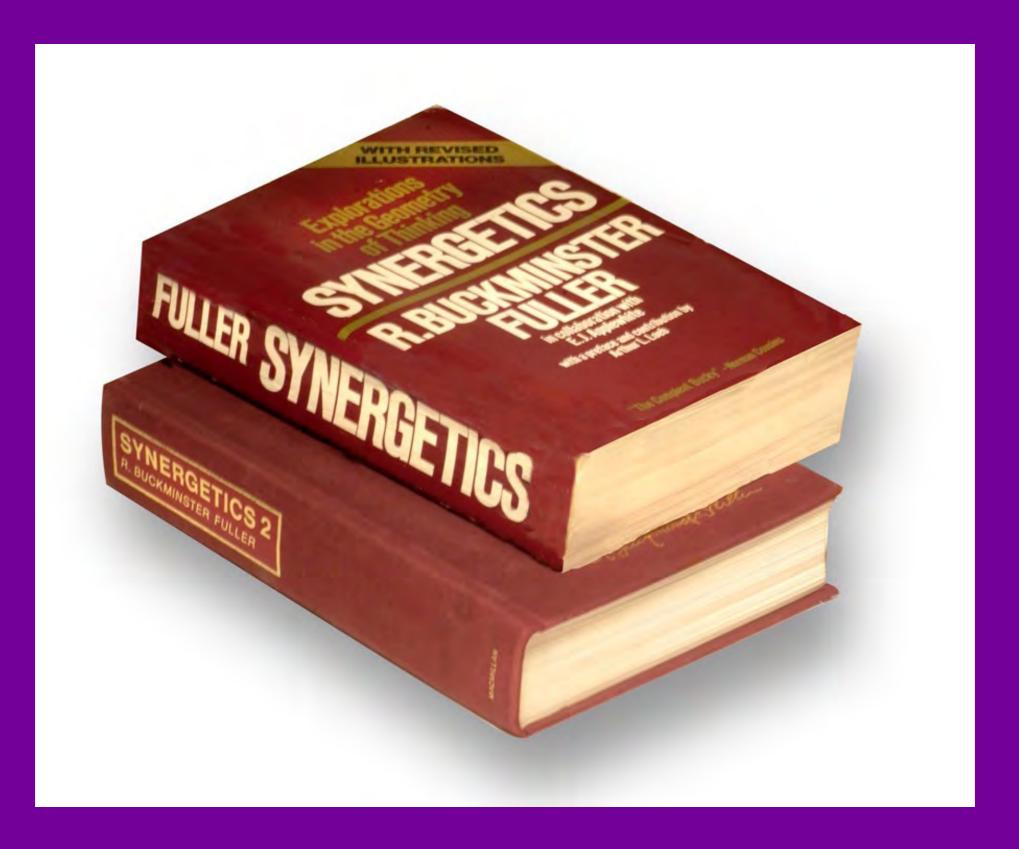


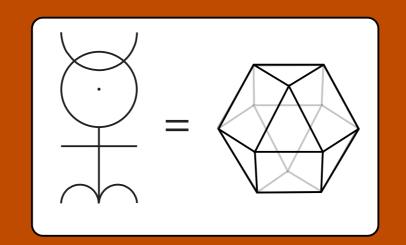
Bucky designs cars, homes, maps, and domes



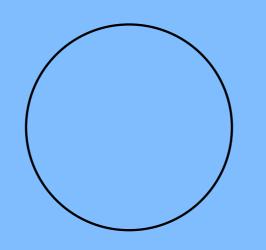


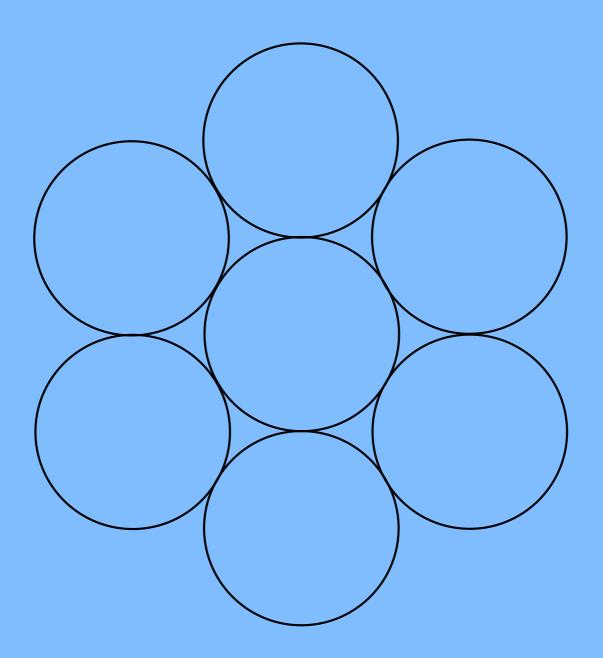


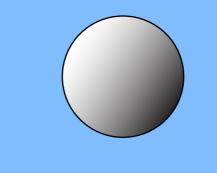
THE MEANING of the MONAS HIEROGLYPHICA with regards to GEOMETRY

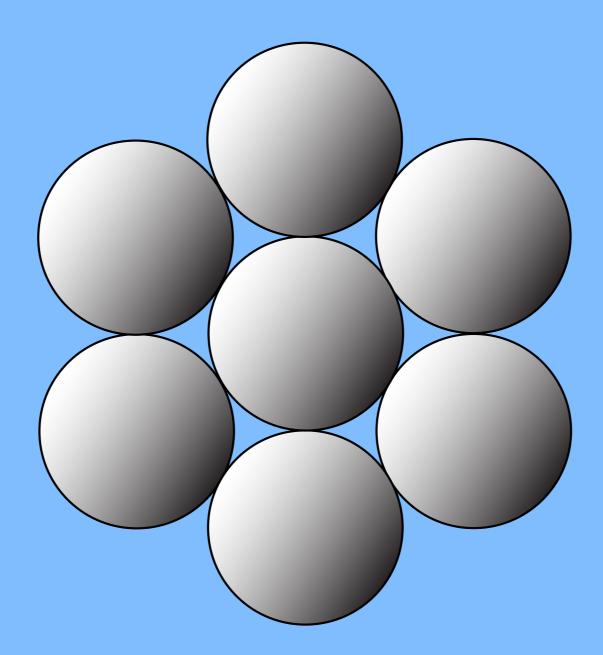


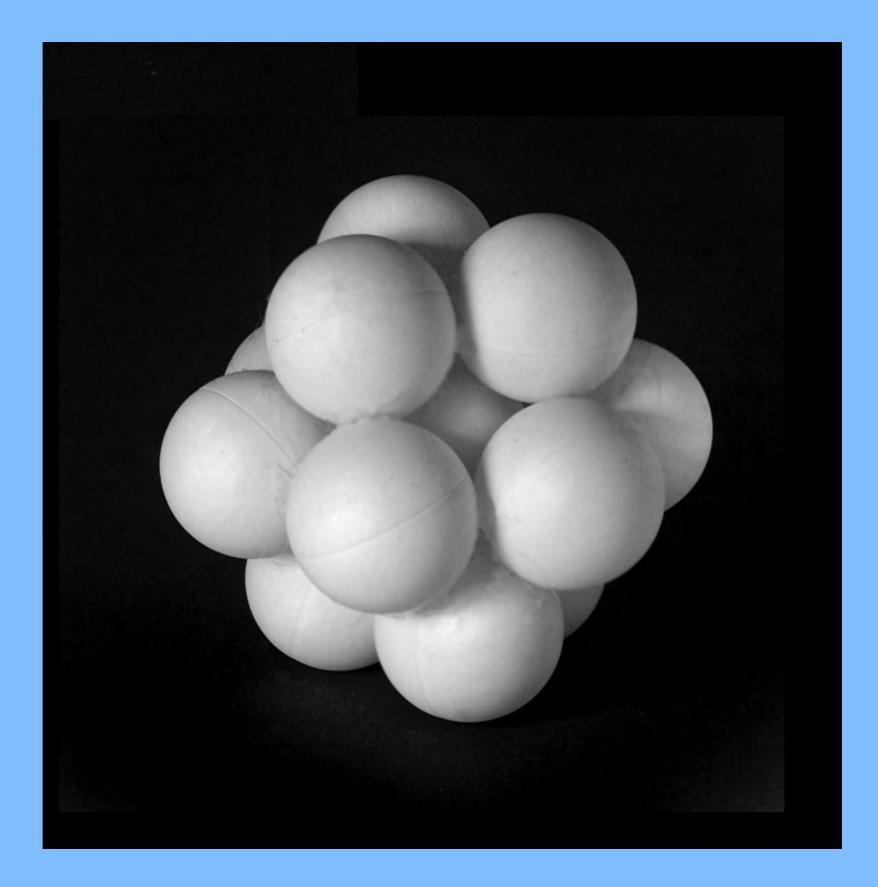
Jim Egan BOOK 3

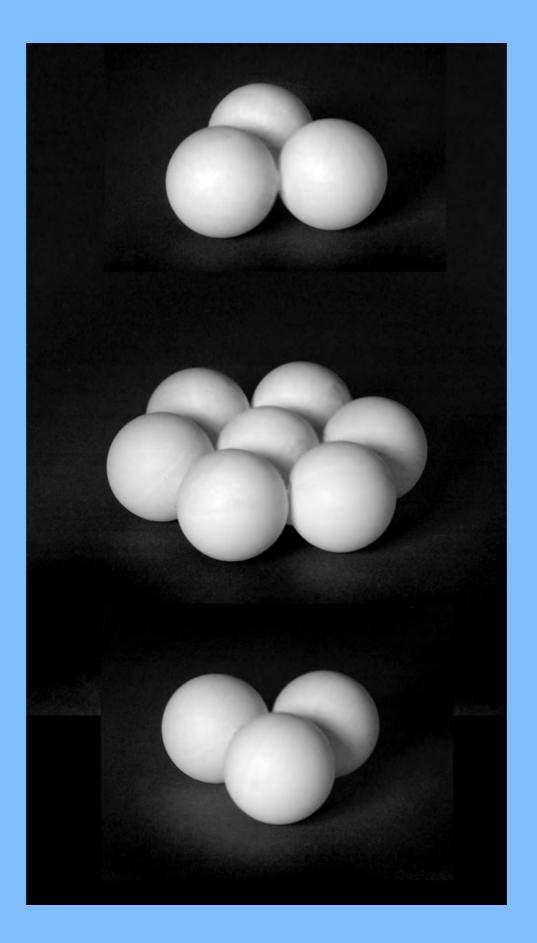


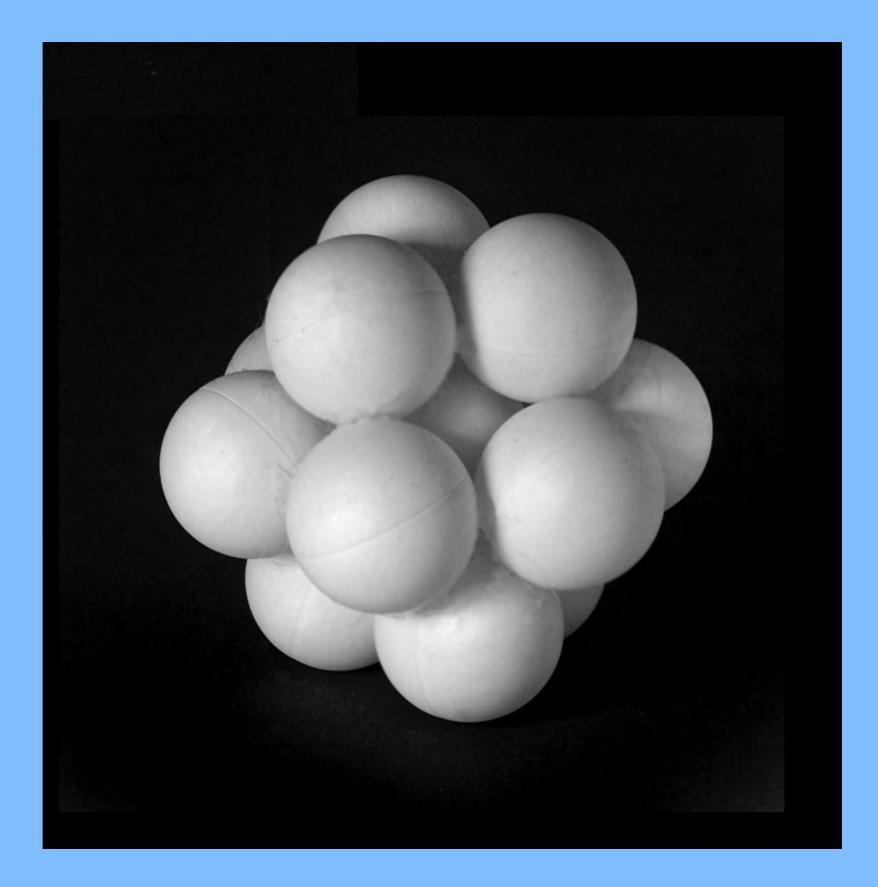


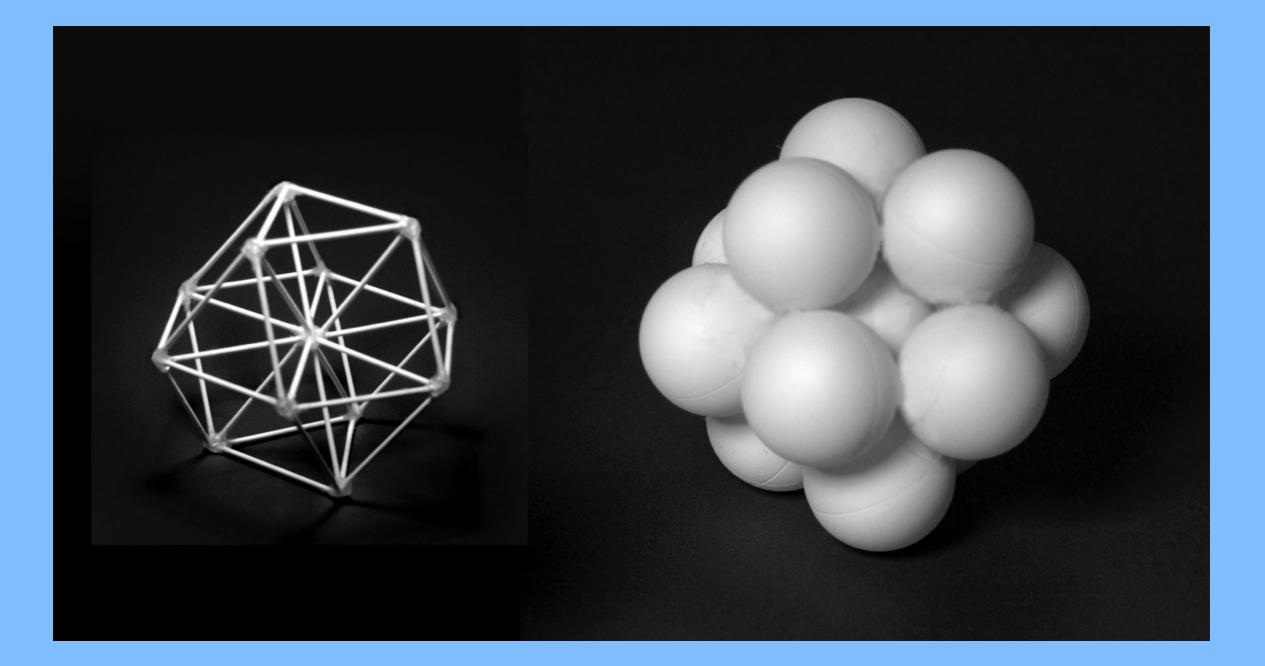


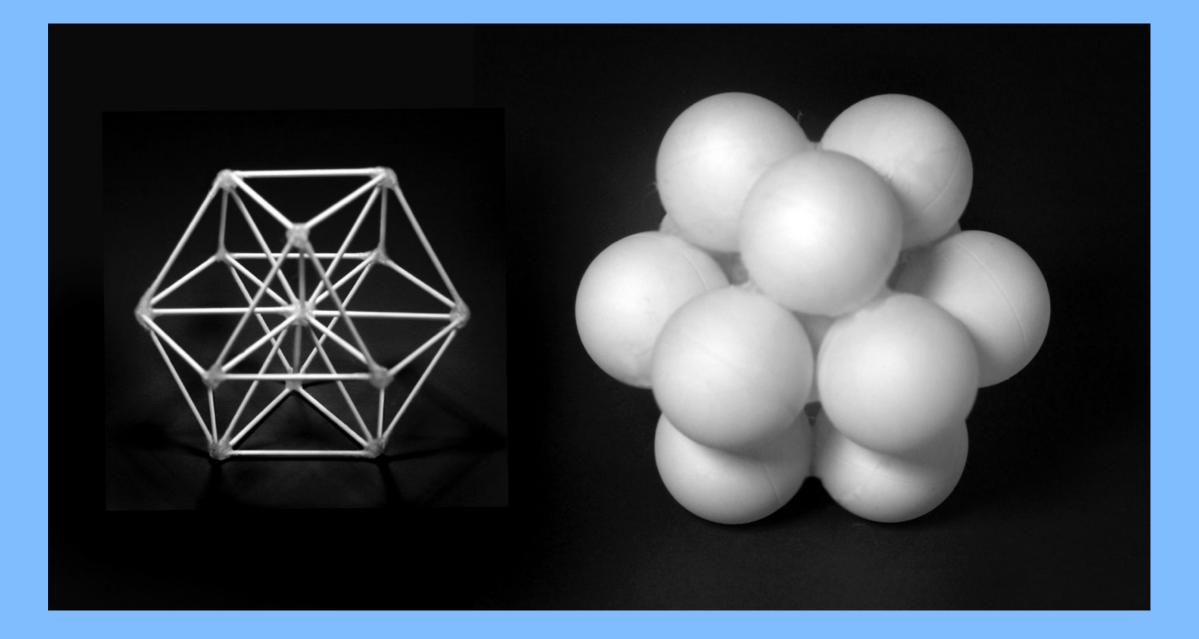


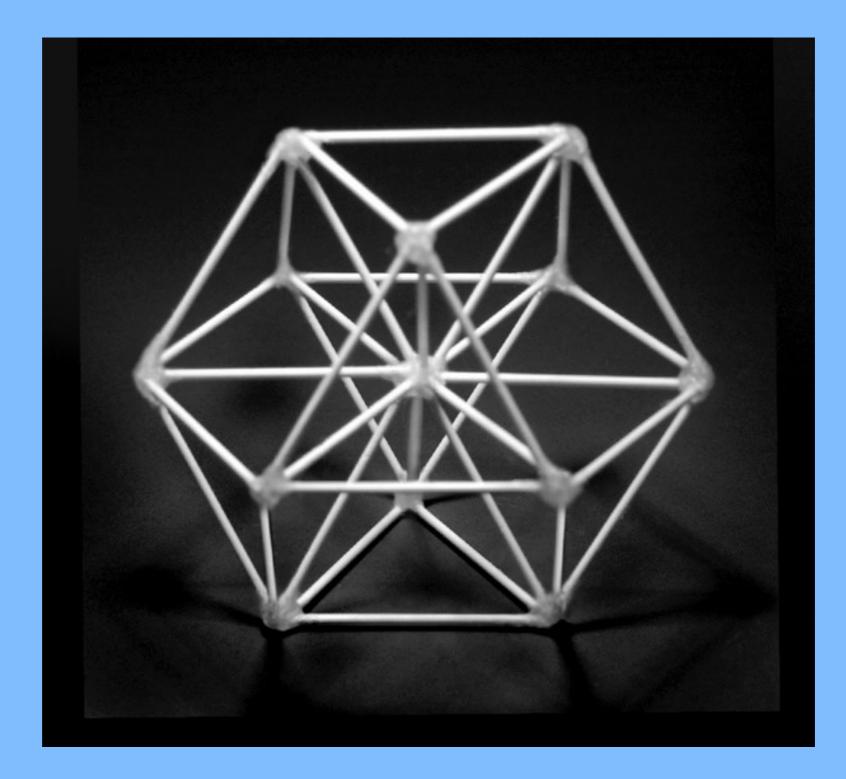


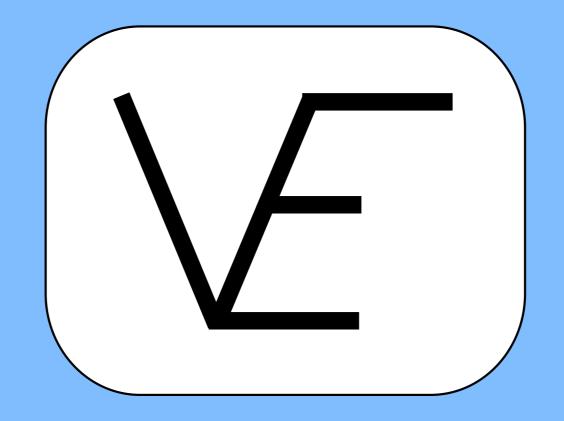


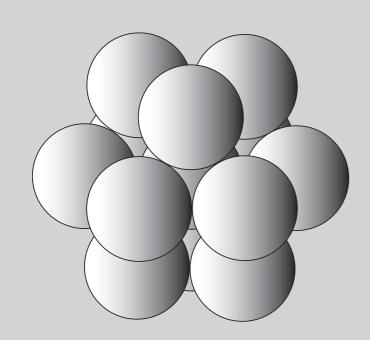


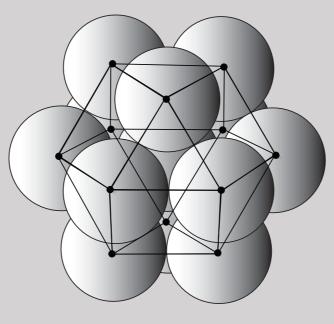


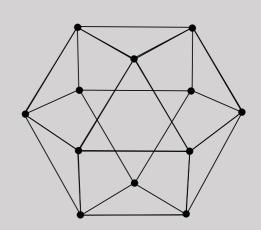




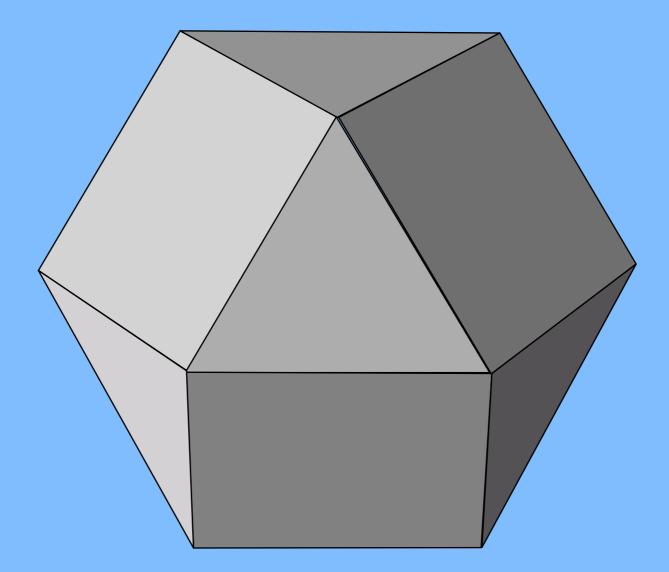


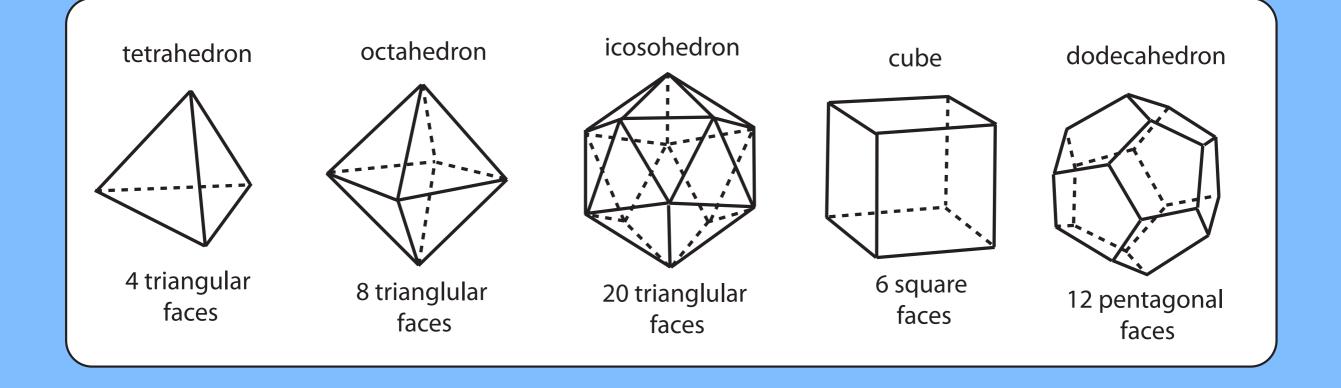






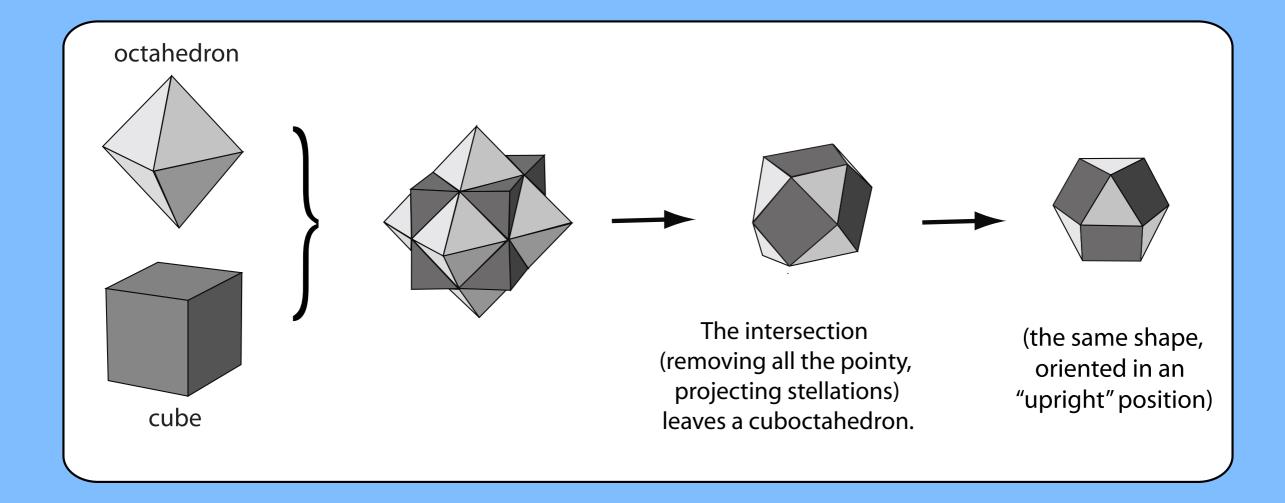
Cuboctahedron of 12 spheres around 1 central sphere. The 12 vertices are the centerpoints of the 12 spheres. Cuboctahedron of 12 vertices and 24 edges Bucky's Vector Equilibrium or the cuboctahedron

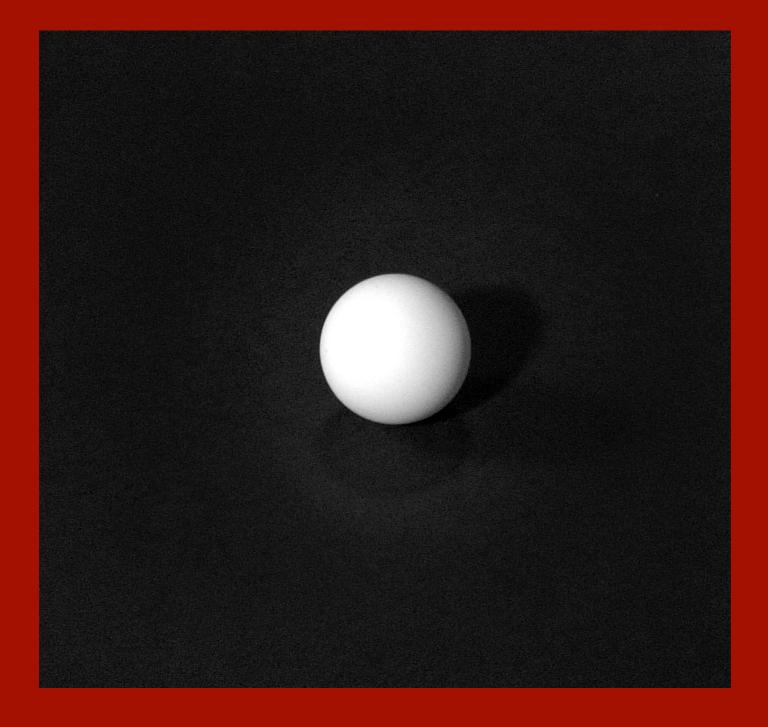




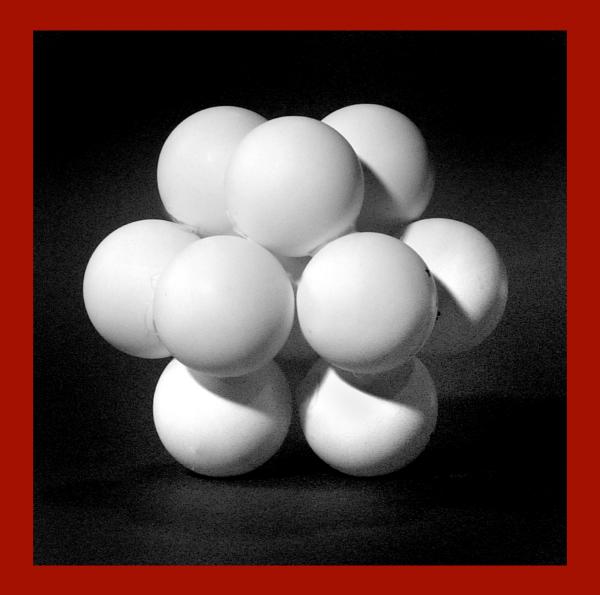
	types of faces		edges	radiating vertices	total faces
	4 triangles	tetrahedron	6	4	4
5	8 triangles	octahedron	12	6	8
"Platonic	20 triangles	icosahedron	30	12	20
Solids"	6 squares	cube	12	8	6
	12 pentagons	dodecahedron	30	20	12
	1 5				
	8 triangles and 6 squares	cuboctahedron	24	12	14
20	0 triangles and 12 pentagons	icosidodecahedron	60	30	32
	4 triangles and 4 hexagons	truncated tetrahedron	18	12	8
13	8 triangles and 6 octagons	truncated cuboctahedron	36	24	14
"Archimedean	6 squares and 8 hexagons	truncated octahedron	36	24	14
Solids"					
	20 triangles and 12 decagons	truncated dodecahedron	90	60	32
	pentagons and 20 hexagons	truncated icosahedron	90	60	32
	8 triangles and 18 squares	rhombicuboctahedron	48	24	26
12 squares and 8 hexagons and 6 octagons		great rhombicuboctahedron	72	48	26
20 triangles and 30 squares and 12 pentagons		rhombicosidodecahedron	120	60	62
30 squares and 20 hexagons and 12 decagons		great rhombicosidodecahedron	180	120	62
	32 triangles and 6 squares	snub cube	60	24	38
80 triangles and 12 pentagons		snub dodecahedron	150	60	92
l					

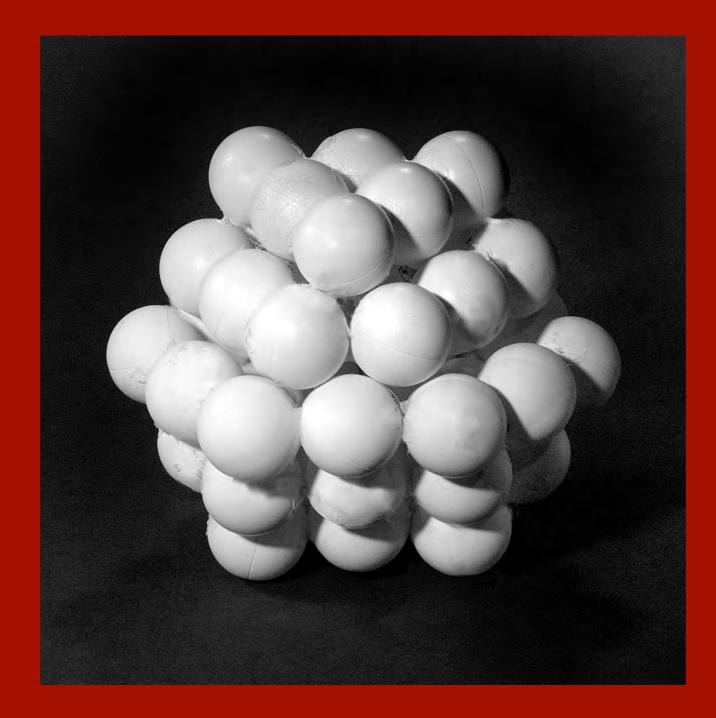
length of edge vector length of radiating vector					
1.6329931619	tetrahedron				
1.4142135624	octahedron				
1.0514622242	icosahedron				
1.1547005384	cube				
0.7136441795	dodecahedron				
<b>1.0000000000</b>	cuboctahedron				
0.6180339887	icosidodecahedron				
0.8528028654	truncated tetrahedron				
0.5621692754	truncated cuboctahedron				
0.6324555320	truncated octahedron				
0.3367628118	truncated dodecahedron				
0.4035482123	truncated icosahedron				
0.7148134887	rhombicuboctahedron				
0.4314788105	great rhombicuboctahedron				
0.4478379596	rhombicosidodecahedron				
0.2629921751	great rhombicosidodecahedron				
0.7442063312	snub cube				
0.4638568806	snub dodecahedron				

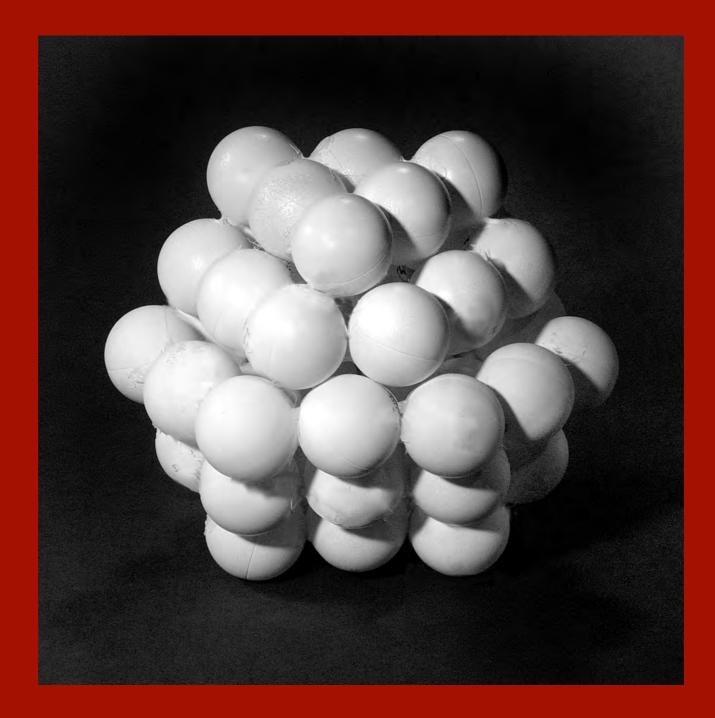




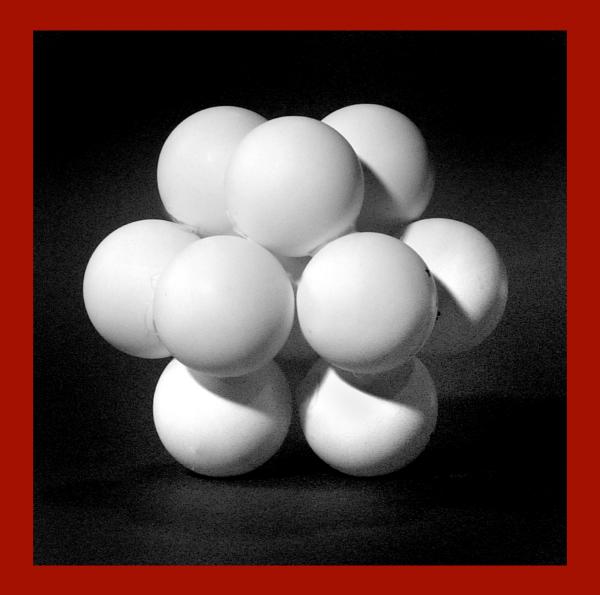
1 central sphere

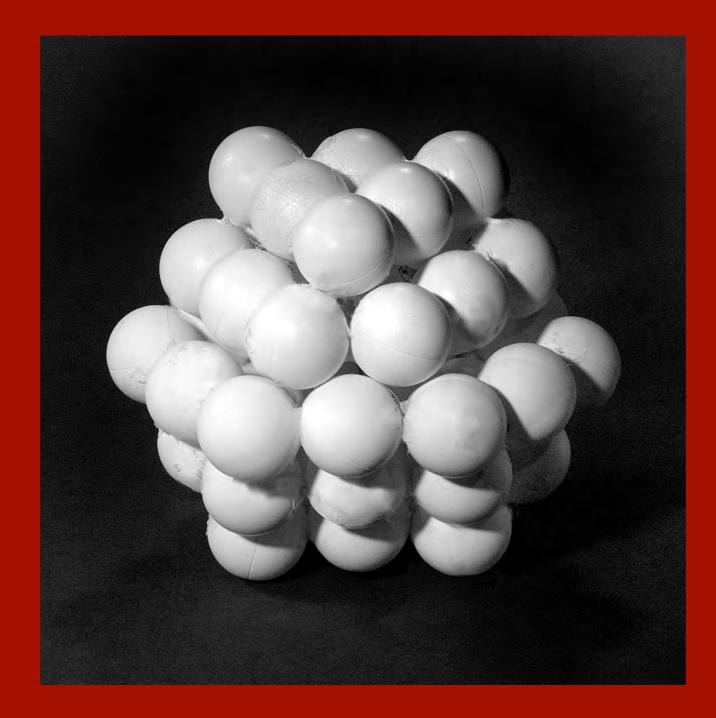


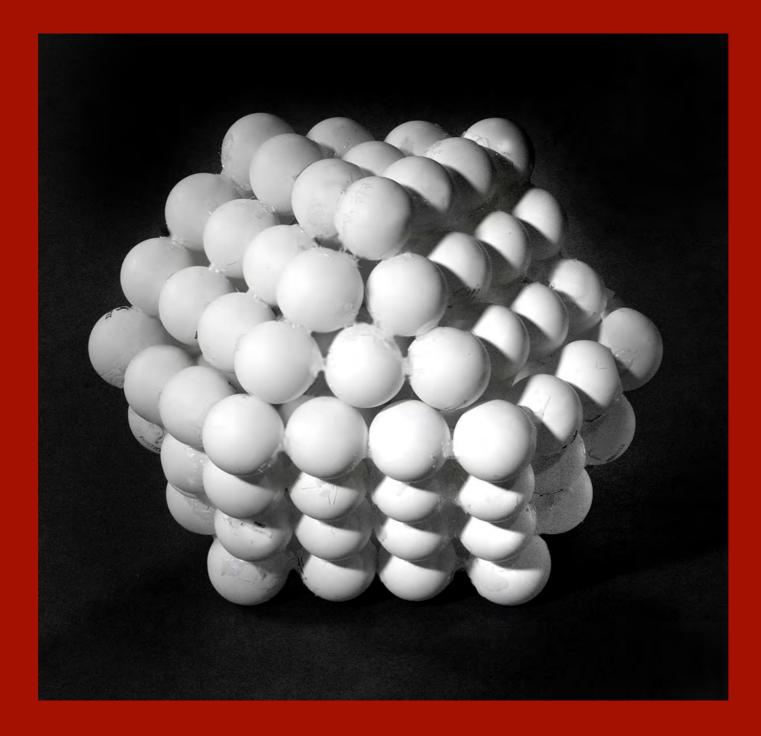


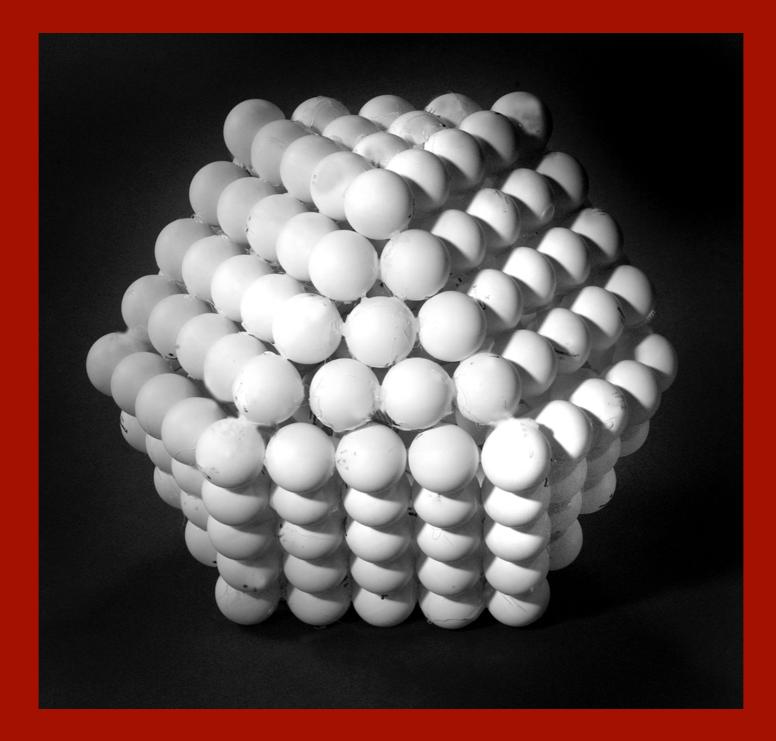


A cluster of 55 total spheres makes the central sphere a "true nucleus."







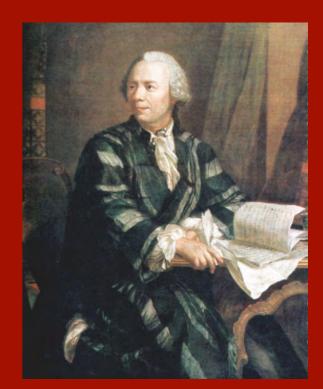


## Layer 1 12 Layer 2 42 Layer 3 92 Layer 4 162

Euler's Formula for the number of spheres-per-layer in the closest-packing-of-spheres

 $(10 L^2) + 2$ 

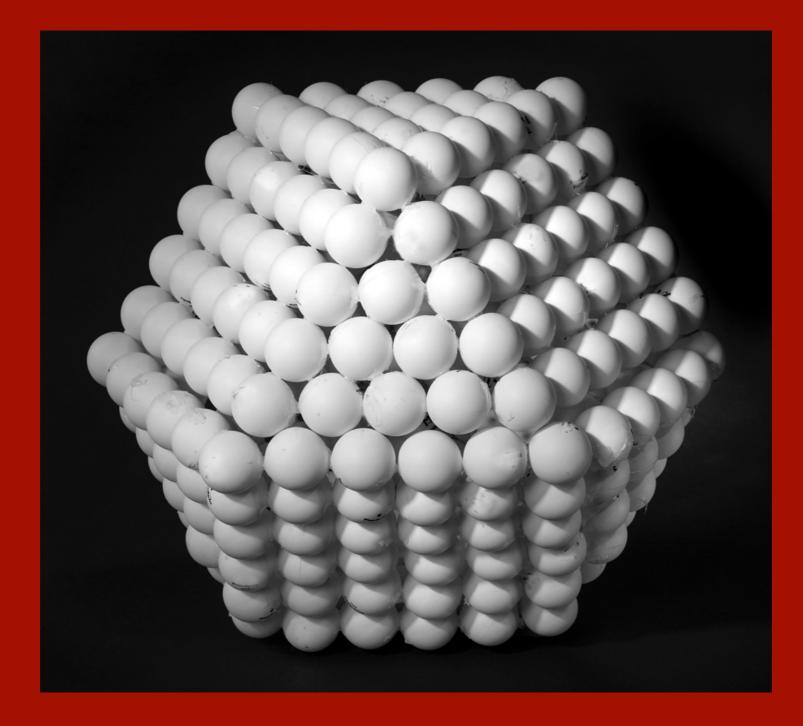
L= Layer number

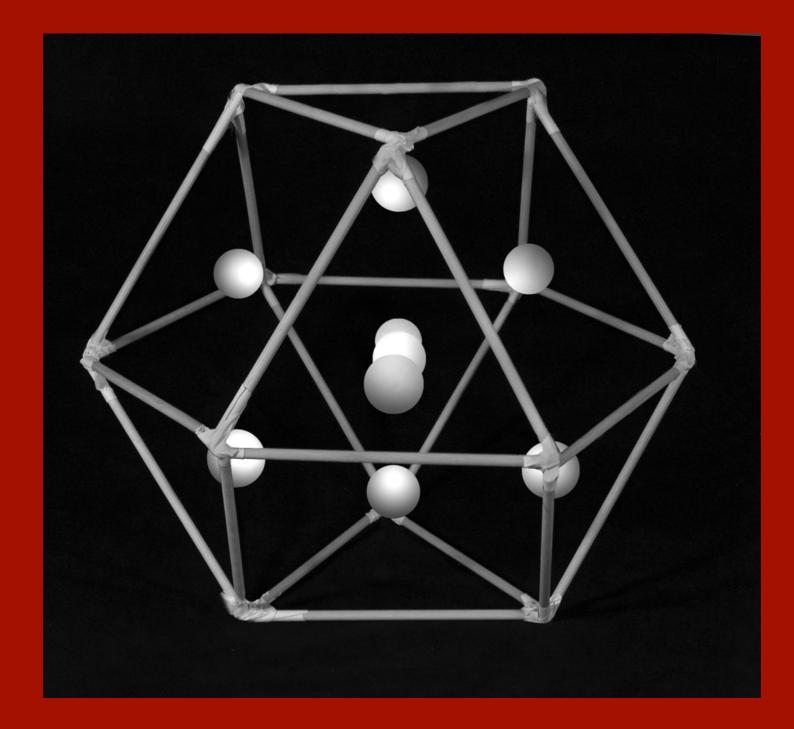


(the	Ten times Layer number "squared")	Then add 2.
Layer 1	10 x1 = 10	10 +2 = 12
Layer 2	10 X 4 = 40	40 +2 = 42
Layer 3	10 X 9 = 90	90 +2 = 92
Layer 4	10 X 16 = 160	160 +2 = 162

## Ten times (the Layer number "squared")... ...Then add 2. Layer 5 $10 \times 25 = 250$ 250 + 2 = 252



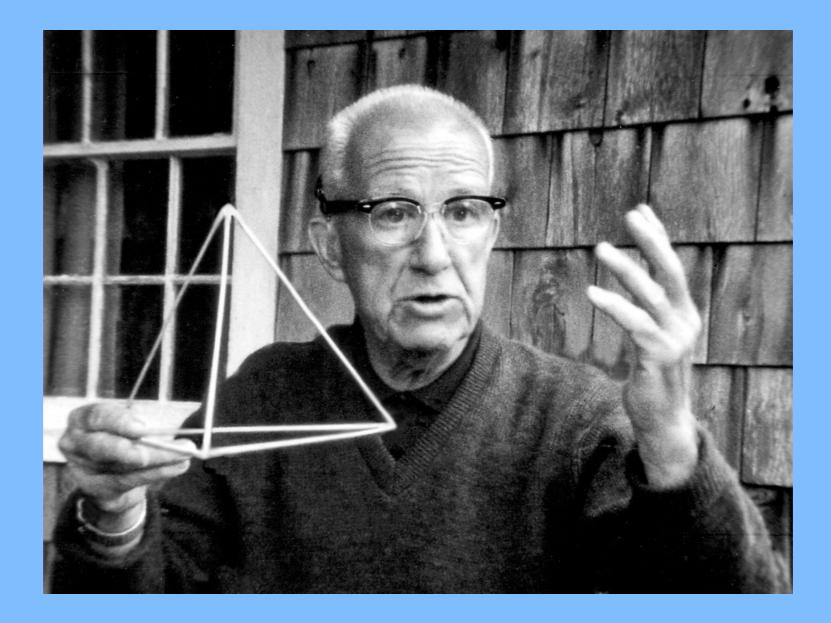


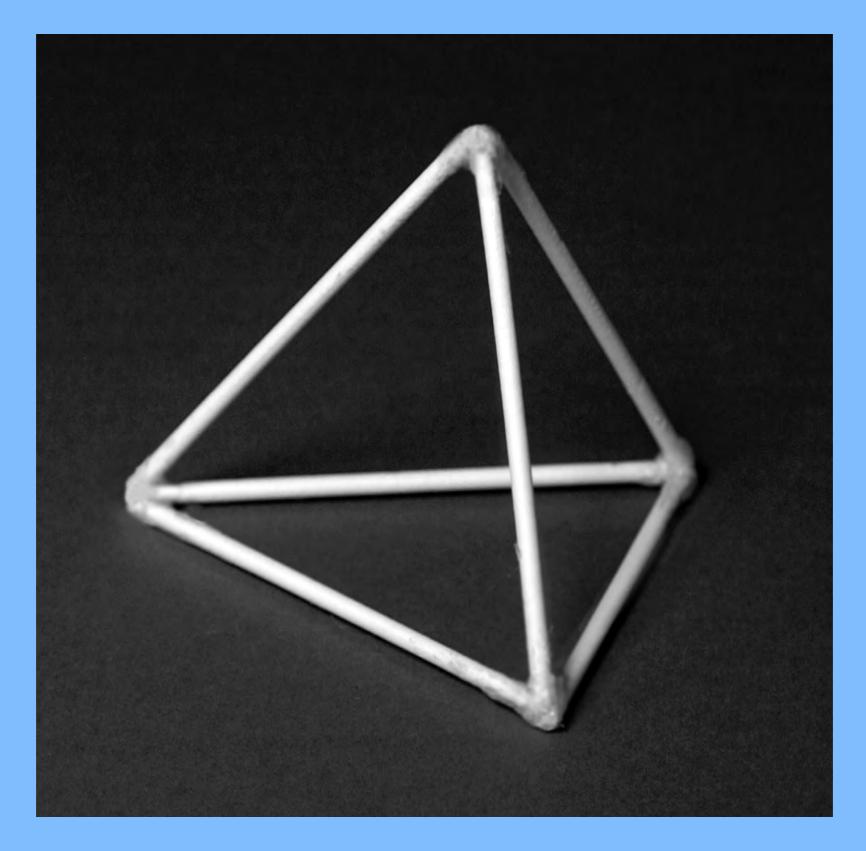




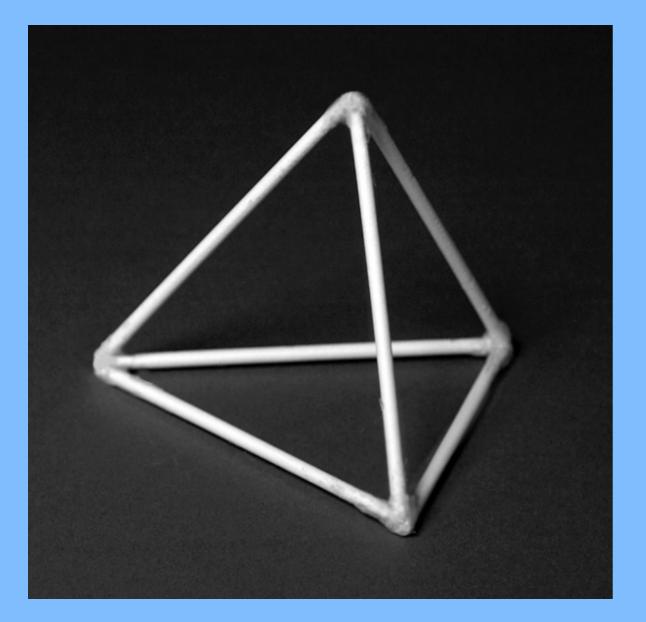
Dee, referring to those who have studied "Space and Void":

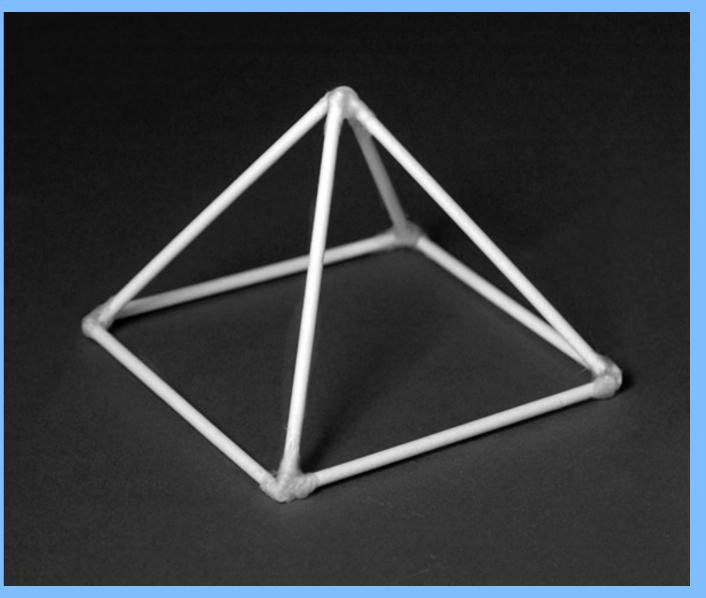
"They have seen that the Surfaces of Elements, which are in close proximity are coordinated, connected, and Joined Together by a Law (decreed by God Almighty) and Bond (practically Unable to be Loosened) of Nature."



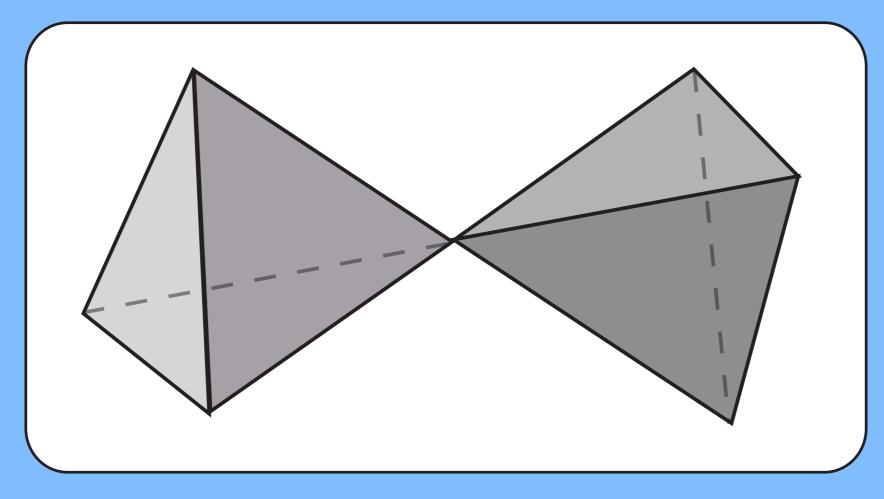


### tetrahedron

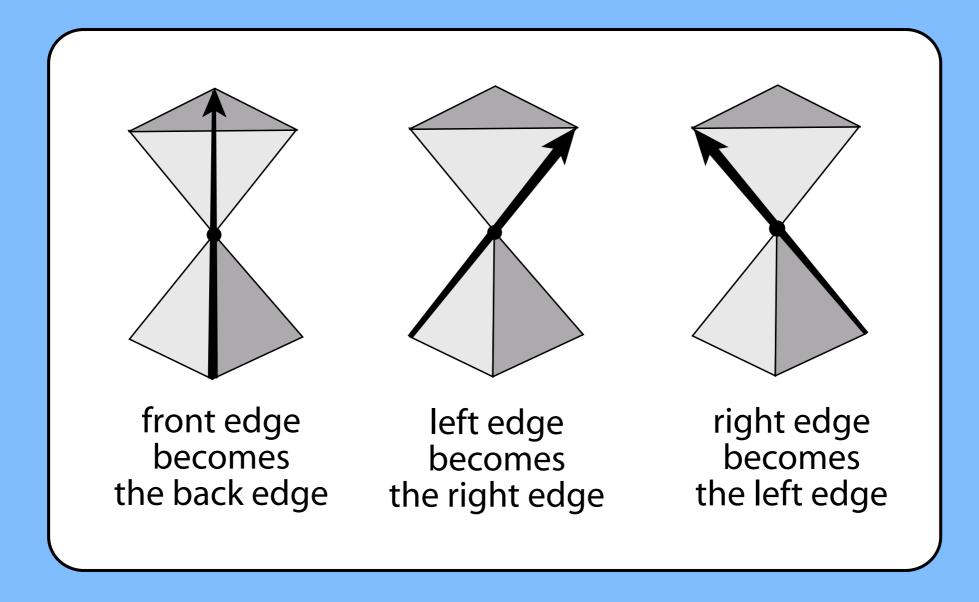




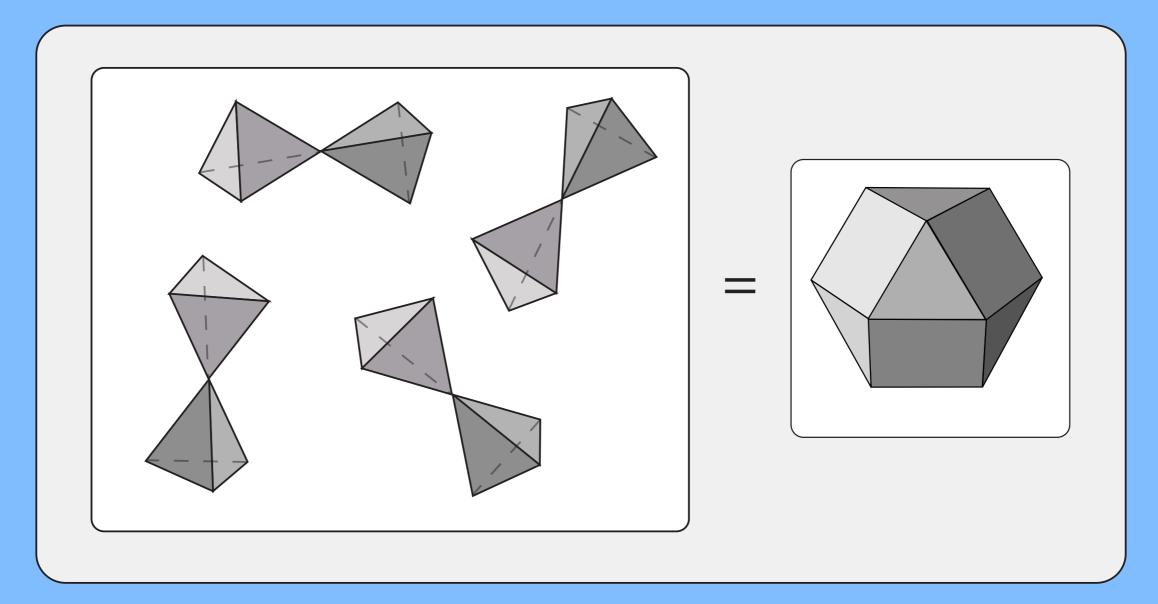
tetrahedral pyramid with its triangular base Pyramid of Giza with its square base



### The Union of Opposites

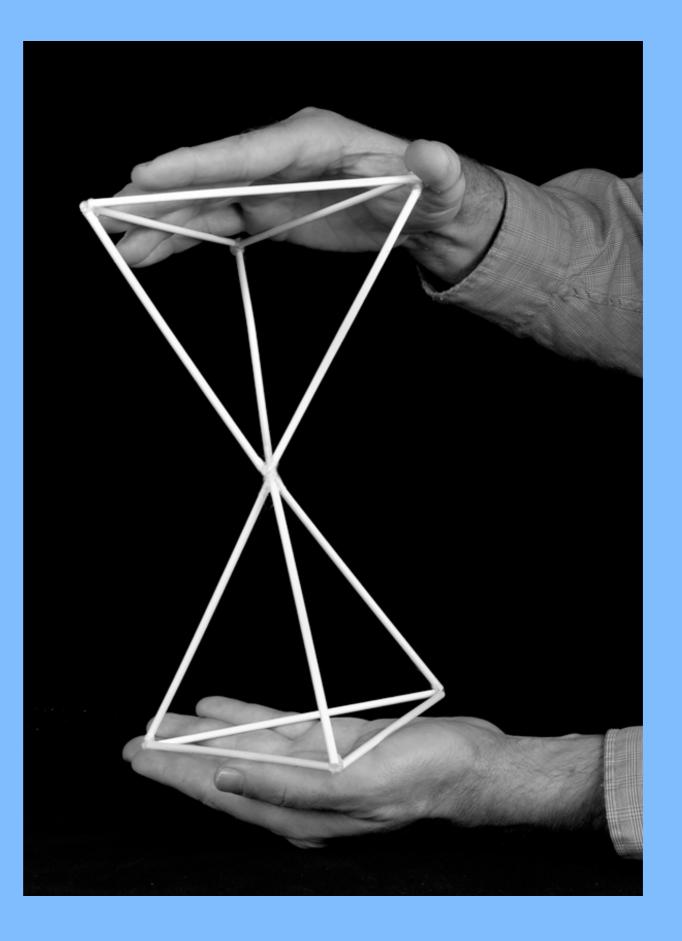


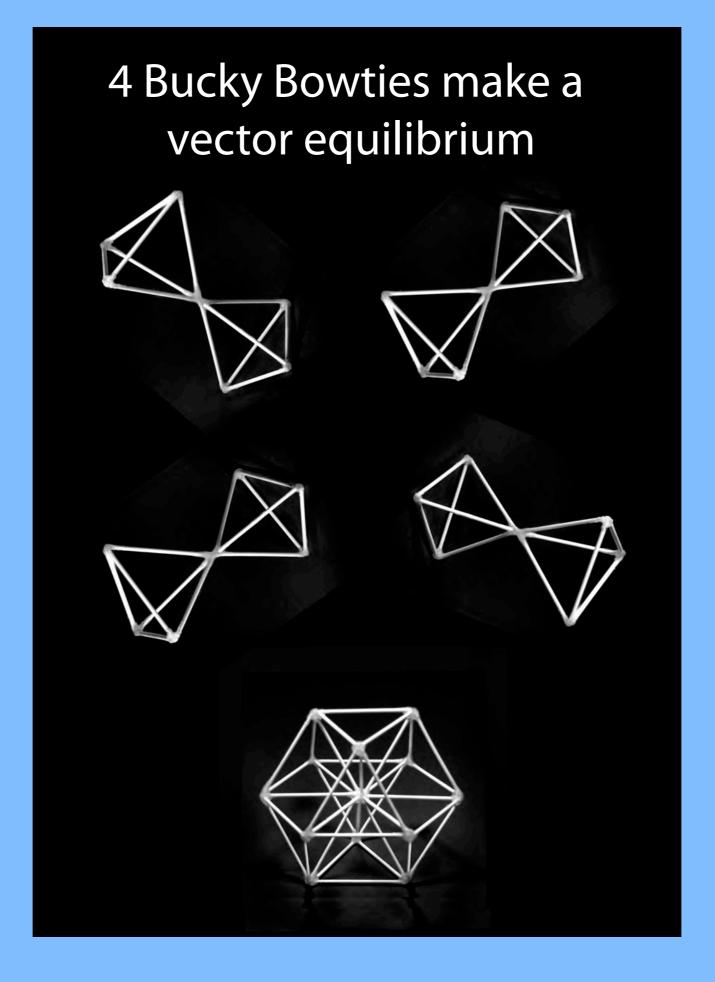


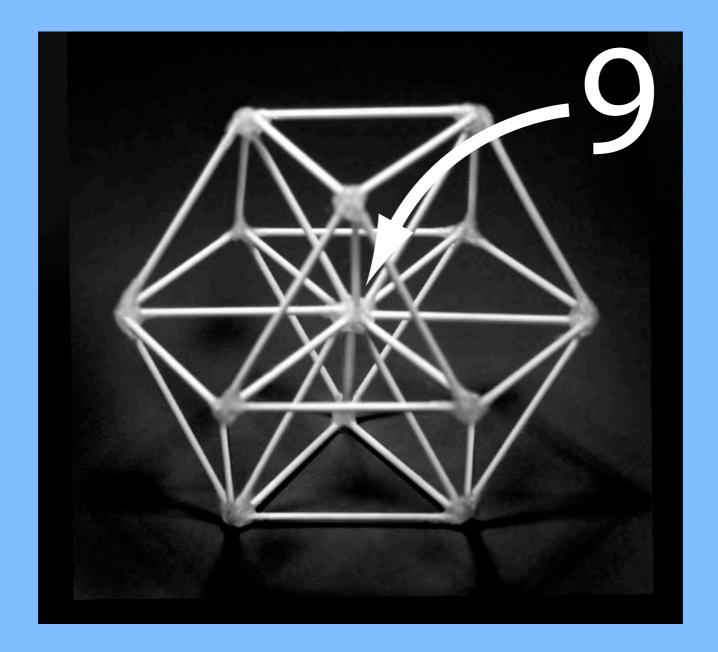


4 pairs of tip-to-tip tetrahedra assemble into a cuboctahedron

### "Bucky Bowtie"







Examples of indigging:

24 indigs to 6

913 indigs to 4

90909 indigs to 0

6372815 indigs to 5

4678 indigs to 25, which further indigs to 7

Checking multiplication by "casting out nines."

These two results should be the same if the original long multiplication was done correctly.

### "From this I saw that nine is zero."

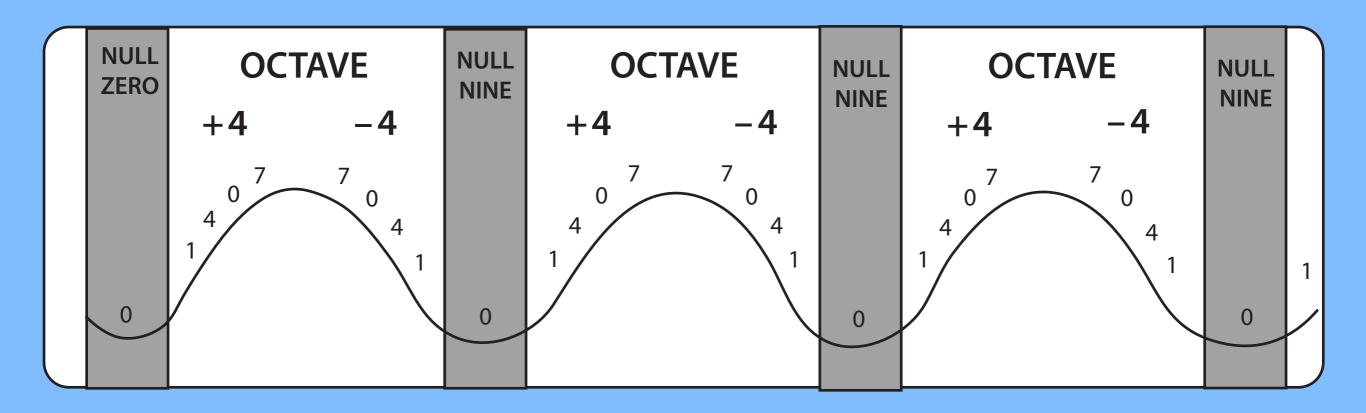
#### "Nucleus as Nine = None = Nothing"

(Fuller, Synergetics 1, 1012.01, p. 647)

Indigging the normal flow of numbers reveals an "octave, null nine" rhythm.						
1 = 1 2 = 2 3 = 3 4 = 4 5 = 5 6 = 6 7 = 7 8 = 8	10 = 1 11 = 2 12 = 3 13 = 4 14 = 5 15 = 6 16 = 7 17 = 8	19 = 1 $20 = 2$ $21 = 3$ $22 = 4$ $23 = 5$ $24 = 6$ $25 = 7$ $26 = 8$	28 = 1 29 = 2 30 = 3 31 = 4 32 = 5 33 = 6 34 = 7 35 = 8	37 = 1 38 = 2 ( )		
9 = <b>0</b>	18 = <b>0</b>	27 = <b>0</b>	36 = <b>0</b>			

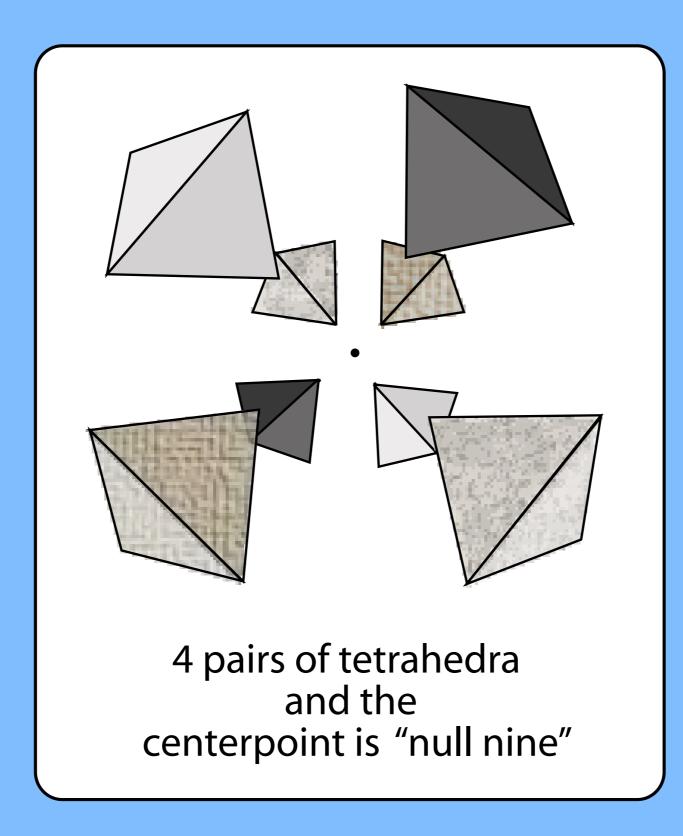
Indigging the SQUARES of the normal flow of numbers reveals an "octave, null nine" rhythm.

1 = <b>1</b>	100 = <b>1</b>	361 = <b>1</b>	784 = <b>1</b>	1369 = <b>1</b>
4 = <b>4</b>	121 = <b>4</b>	400 = <b>4</b>	841 = <b>4</b>	1444 = <b>4</b>
9 = <b>0</b>	144 = <b>0</b>	441 = <b>0</b>	900 = <b>0</b>	( )
16 = <b>7</b>	169 = <b>7</b>	484 = <b>7</b>	961 = <b>7</b>	
25 = <b>7</b>	196 = <b>7</b>	529 = <b>7</b>	1084 = <b>7</b>	
36 = <b>0</b>	225 = <b>0</b>	576 = <b>0</b>	1089 = <b>4</b>	
49 = <b>4</b>	256 = <b>4</b>	625 = <b>4</b>	1156 = <b>0</b>	
64 = <b>1</b>	289 = <b>1</b>	676 = <b>1</b>	1225 = <b>1</b>	
81 = <b>0</b>	324 = <b>0</b>	729 = <b>0</b>	1296 = <b>0</b>	

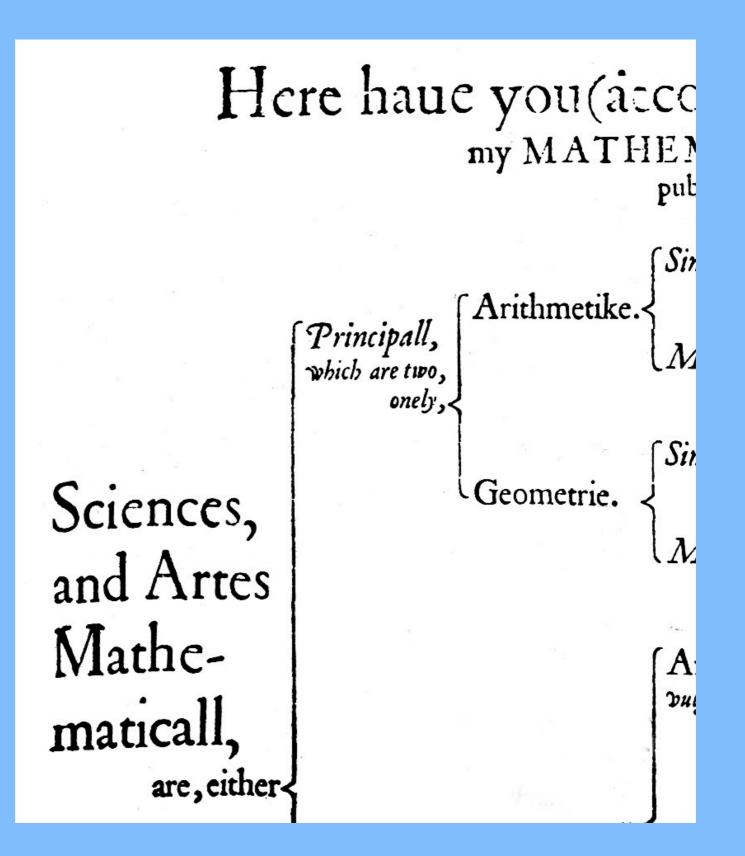


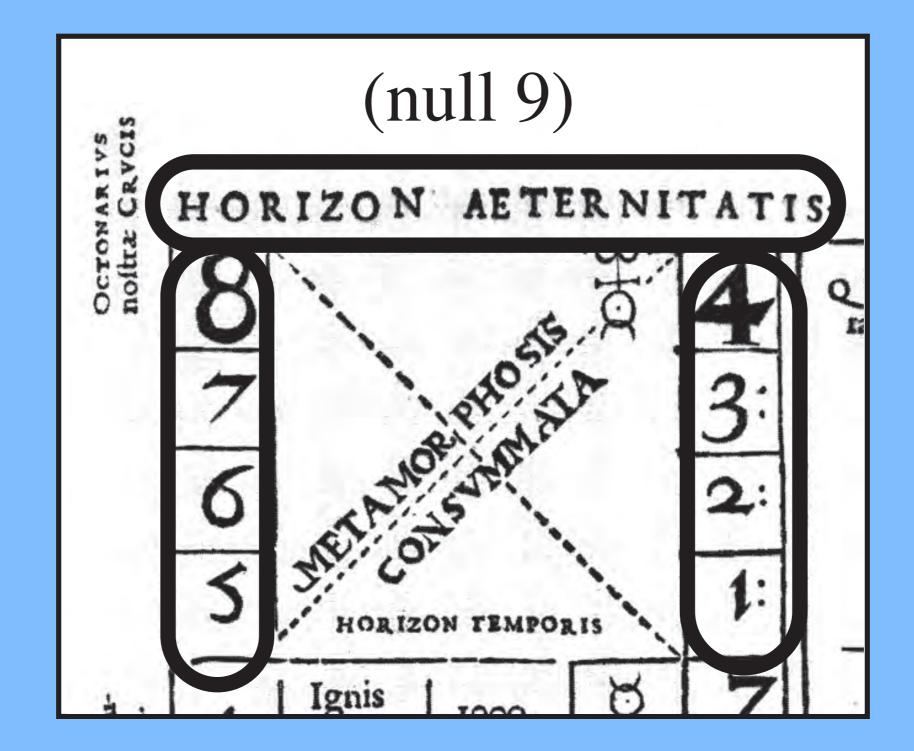
"Indig congruences demonstrate that nine is zero and that number system is inherently octave..." with an internal rhythm of "four positive and four negative."

## "The inherent +4,−4,0,+4,−4,0 → of number"

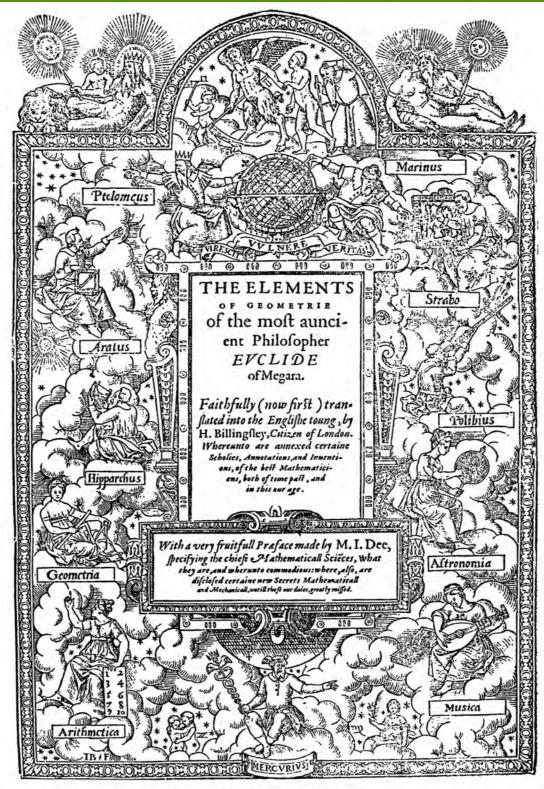


# Geometry and Arithmetic





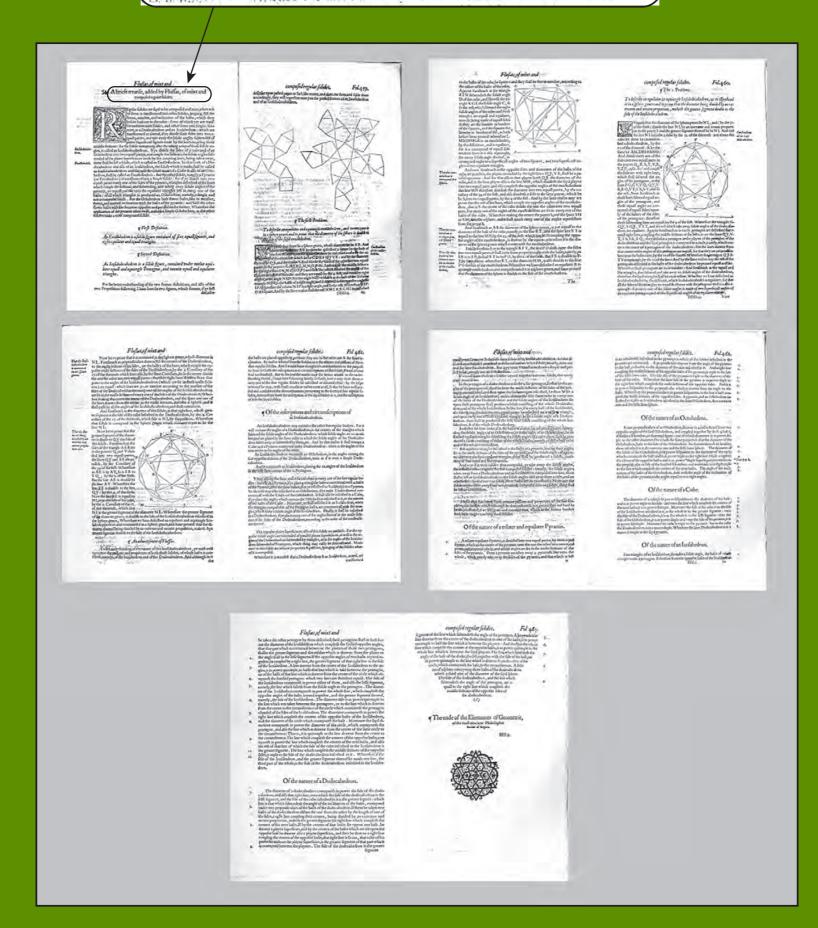
## Dee discovered in the 1500's what Bucky discovered in the1900's



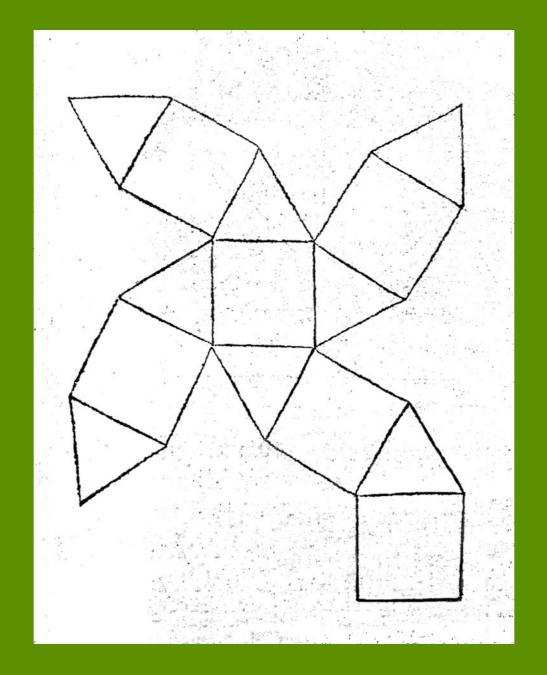
Imprinted at London by John Daye.

# The Title page of Henry Billingsley's (and John Dee's) Elements of Euclid

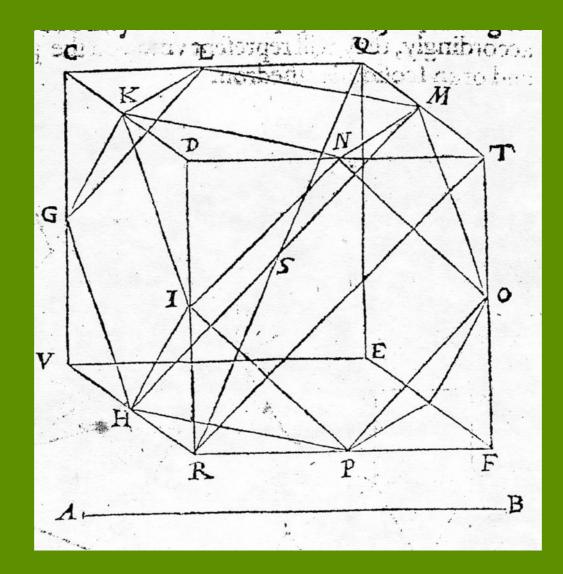
A briefe treatife, added by Fluffas, of mixt and compofed regular folides.

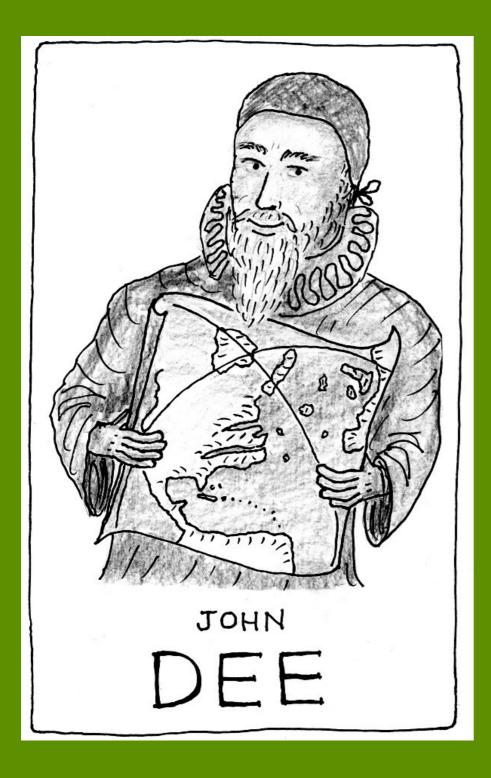


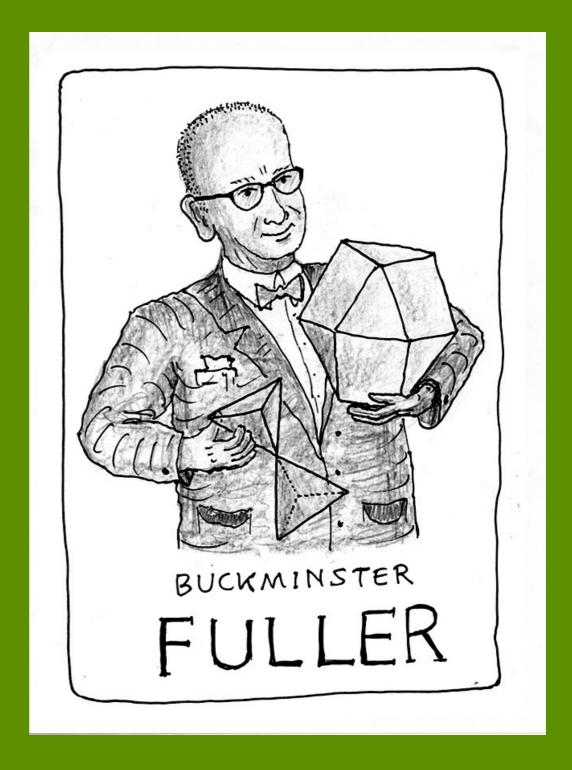
"An Exoctahedron is a solid figure containing six equal squares and eight and equilateral and equal triangles."

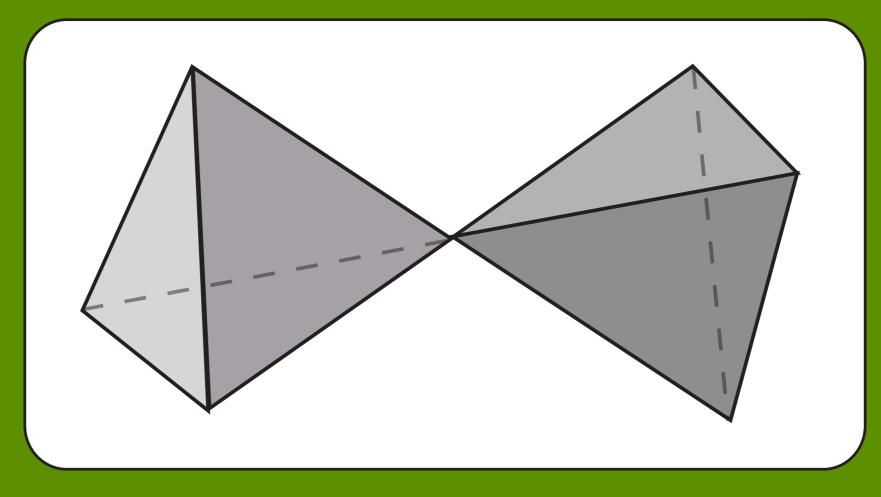


### cutting the corners off a cube makes an "exoctahedron"







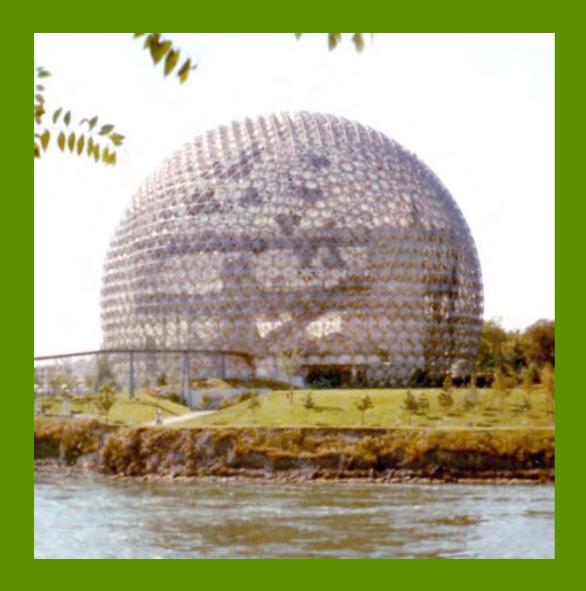


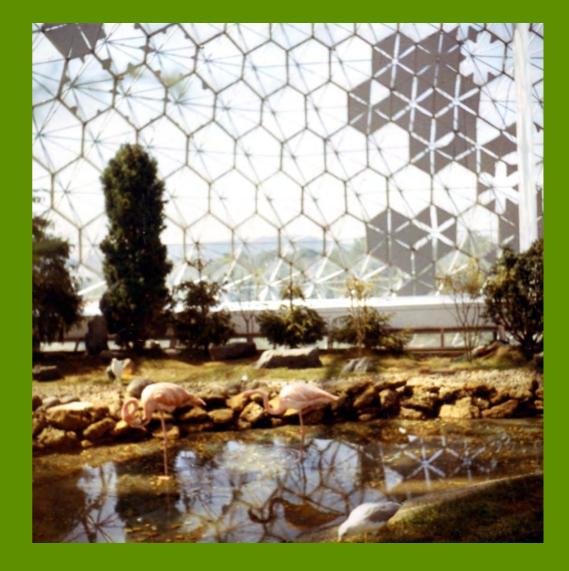
### The Union of Opposites

# "Unity is plural, and at minimum two."

#### outsidedness

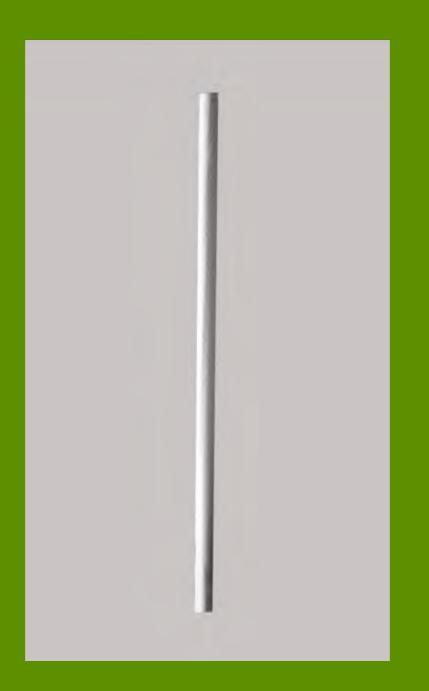
#### insidedness

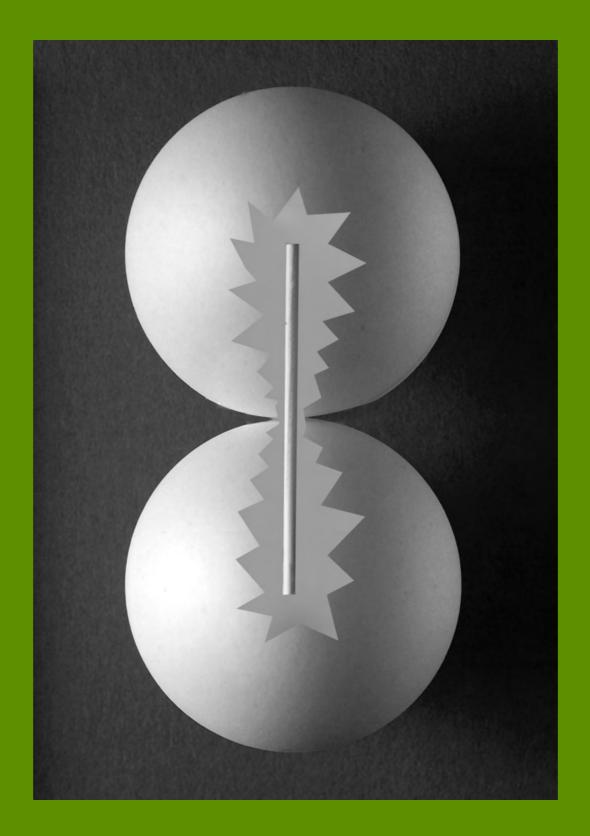




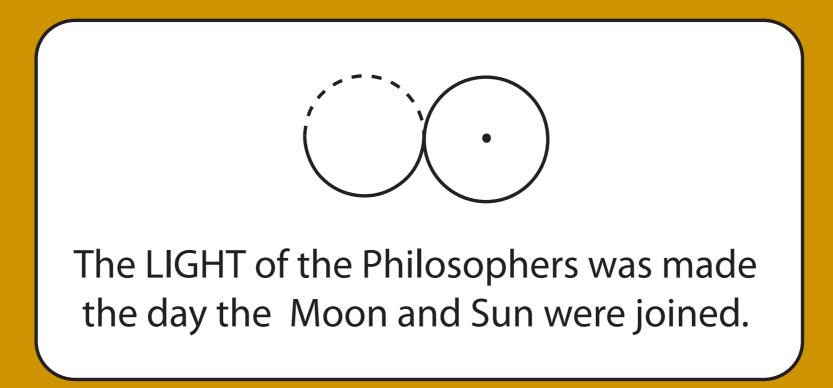
convex

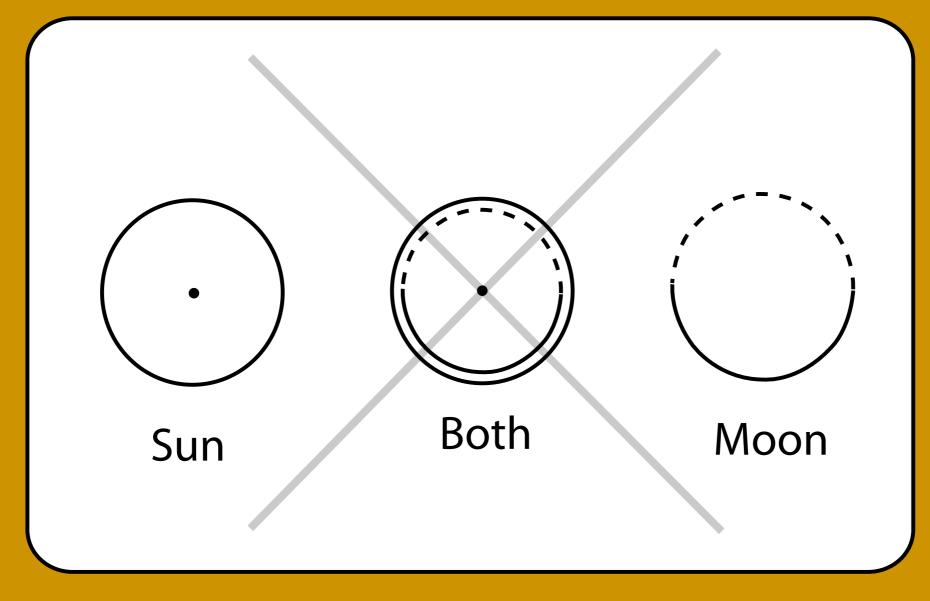






(Unity=2)





### The Union of Opposites

