Cylindrical Helix Periodic Table of the Elements

This **paper-and-plastic model** is partly opaque and and partly transparent.

Paper Pattern

																	1 H
												5 B	6 C	7 N	8 O	9 F	10 Ne
												13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
						21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
						39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Nh	114 Fl	115 Mc	116 Lv	117 Ts	118 Og

2 He	3 Li	4 Be															
10 Ne	11 Na	12 Mg															
18 Ar	19 K	20 Ca															
36 Kr	37 Rb	38 Sr															
54 Xe	55 Cs	56 Ba															
86 Rn	87 Fr	88 Ra															

The four dotted lines show how the helix is connected.

Transparency Pattern

elements.wlonk.com

Instructions

1. Print the **paper pattern** on paper.
2. Print or trace the **transparency pattern** on a clear plastic sheet, at the same scale.
3. Cut out the paper table along the outer solid lines.
4. Cut out the clear sheet along the outer dashed line.
5. Place the paper table behind the clear sheet, align the solid lines, and attach the right edge of the paper (elements 4 to 120) to the clear sheet using clear tape.
6. Roll the paper into a cylinder, align element 56 with element 57, and tape the edges together.
7. Gradually wrap the clear sheet snugly around the paper cylinder, starting at the right edge and moving to the left, adding small pieces of tape as you go (say, at elements 113 and 103).
8. Finish the cylinder by taping along the entire seam on both front and back.