

Electronegativity values

No one expects you to learn the electronegativity value for all the elements but it is worth remembering a few of the main ones. Before you answer the puzzles below fill in the table of electronegativities using:

4.0 3.0 2.1 0.7

element	electronegativity	element	electronegativity
F		Cs	
O	3.5	N	3.0
Cl		Br	2.8
C	2.5	K	0.8
H		Na	0.9

Gridlock 1

Each row, column and 2 x 2 box contains information about the elements F, O, Cl and C. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

element		electronegativity	
F			2.5
	C		
			F
		O	
electronegativity		element	

gridlocks – can you unlock the grid?

Gridlock 2

Each row, column and 2 x 2 box contains information about each of the elements H, Cs, N and Br.

element		electronegativity	
Cs			
		2.8	
		H	
	3.0		
electronegativity		element	

Gridlock 3

Each row, column and 2 x 2 box contains information about each of the elements F, Na, K and C.

element		electronegativity	
	F		2.5
			4.0
0.8			Na
electronegativity		element	

Electronegativity values – answers

element	electronegativity	element	electronegativity
F	4.0	Cs	0.7
O	3.5	N	3.0
Cl	3.0	Br	2.8
C	2.5	K	0.8
H	2.1	Na	0.9

Puzzle 1 – answers

element		electronegativity	
F	O	3.0	2.5
Cl	C	4.0	3.5
3.5	3.0	C	F
2.5	4.0	O	Cl
electronegativity		element	

gridlocks – can you unlock the grid?

Puzzle 2 – answers

element		electronegativity	
Cs	Br	3.0	2.1
N	H	2.8	0.7
2.8	0.7	H	N
2.1	3.0	Cs	Br
electronegativity		element	

Puzzle 3 – answers

element		electronegativity	
Na	F	0.8	2.5
C	K	0.9	4.0
4.0	0.9	C	K
0.8	2.5	F	Na
electronegativity		element	