Average Weighting When These Are The Two Main Elements In a Tie Particle										
		Ag	Al	Au	Ba	Bi	Br	Ca	Cd	Ce
Silver	Ag									
Aluminum	Al	Ag 67%, Al 15%								
Gold	Au	Au 86%, Ag 12%	Au 59%, Al 32%							
Barium	Ba	Ag 82%, Ba 9%	Ba 44%, Al 28%							
Bismuth	Bi	Bi 61%, Ag 19%	Bi 73%, Al 14%		Ba 63%, Bi 15%					
Bromine	Br	Ag 59%, Br 17%	Br 49%, Al 25%	Au 100%, Br 0%						
Calcium	Ca	Ag 39%, Ca 33%	Ca 84%, Al 9%	Au 47%, Ca 25%	Ca 62%, Ba 19%	Bi 49%, Ca 31%	Ca 97%, Br 2%			
Cadmium	Cd		Cd 73%, Al 11%					Cd 72%, Ca 22%		
Cerium	Ce		Ce 50%, Al 22%					Ca 45%, Ce 22%		
Chlorine	Cl	Ag 84%, Cl 8%	Al 58%, Cl 25%	Cl 31%, Au 23%	Cl 49%, Ba 21%	Bi 86%, Cl 9%		Ca 54%, Cl 21%	Cd 57%, Cl 24%	Cl 53%, Ce 10%
Cobalt	Co							Ca 67%, Co 21%		
Chromium	Cr		Cr 62%, Al 31%		Cr 30%, Ba 29%		Cr 99%, Br 1%	Ca 73%, Cr 20%		
Copper	Cu	Ag 48%, Cu 32%	Al 54%, Cu 38%	Au 45%, Cu 35%	Ba 37%, Cu 28%		Cu 99%, Br 1%	Ca 61%, Cu 23%	Cu 71%, Cd 17%	
Fluorine	F							Ca 85%, F 7%		
Iron	Fe	Fe 48%, Ag 32%	Fe 71%, Al 18%	Au 47%, Fe 37%	Fe 70%, Ba 11%	Bi 41%, Fe 36%	Fe 99%, Br 1%	Fe 47%, Ca 34%	Cd 49%, Fe 43%	Fe 43%, Ce 42%
Mercury	Hg	Ag 48%, Hg 33%						Hg 70%, Ca 12%		
Potassium	K		Al 36%, K 24%		K 36%, Ba 27%	Bi 69%, K 17%	Br 68%, K 26%	Ca 60%, K 18%	Cd 99%, K 1%	
Lanthanum	La									Ce 60%, La 29%
Magnesium	Mg	Ag 37%, Mg 16%	Al 80%, Mg 14%			Bi 100%, Mg 0%		Ca 75%, Mg 18%		
Manganese	Mn				Mn 50%, Ba 13%			Ca 70%, Mn 23%		
Molybdenum	Mo		Mo 91%, Al 4%					Mo 61%, Ca 14%		
Sodium	Na		Al 49%, Na 33%					Ca 91%, Na 8%		
Nickel	Ni	Ag 89%, Ni 5%	Al 74%, Ni 20%	Au 92%, Ni 5%	Ba 54%, Ni 19%	Bi 84%, Ni 7%	Ni 99%, Br 1%	Ca 92%, Ni 5%	Cd 95%, Ni 3%	Ce 61%, Ni 19%
Phosphorus	P		P 70%, Al 16%		Ba 40%, P 28%			Ca 59%, P 30%	Cd 52%, P 30%	Ce 41%, P 19%
Lead	Pb	Ag 28%, Pb 24%	Pb 64%, Al 16%		Pb 32%, Ba 30%	Bi 71%, Pb 12%	Pb 69%, Br 15%	Pb 40%, Ca 28%		
Palladium	Pd	Ag 80%, Pd 9%	Al 77%, Pd 11%	Au 79%, Pd 16%		Bi 86%, Pd 7%		Ca 87%, Pd 8%	Cd 73%, Pd 8%	
Sulfur	S	Ag 81%, S 11%	Al 63%, S 16%	Au 88%, S 3%	Ba 72%, S 17%	Bi 45%, S 12%		Ca 58%, S 31%	Cd 78%, S 13%	Ce 21%, S 14%
Antimony	Sb		Sb 94%, Al 5%		Ba 35%, Sb 30%		Sb 98%, Br 2%	Sb 67%, Ca 23%		
Silicon	Si	Ag 49%, Si 20%	Si 54%, Al 24%	Au 48%, Si 30%	Si 43%, Ba 23%	Bi 49%, Si 25%	Si 99%, Br 1%	Ca 62%, Si 22%	Cd 65%, Si 14%	Si 34%, Ce 25%
Tin	Sn		Sn 85%, Al 7%		Sn 78%, Ba 7%			Sn 65%, Ca 22%	Cd 98%, Sn 2%	
Strontium	Sr		Sr 45%, Al 27%		Ba 41%, Sr 27%			Ca 66%, Sr 26%		
Titanium	Ti	Ag 46%, Ti 27%	Ti 88%, Al 8%	Ti 94%, Au 4%	Ti 48%, Ba 31%	Bi 43%, Ti 15%		Ca 52%, Ti 31%		Ce 28%, Ti 16%
Vanadium	V							V 33%, Ca 19%		Ce 45%, V 27%
Tungsten	W				W 56%, Ba 15%					
Yttrium	Y		Y 96%, Al 4%					Ca 90%, Y 8%		
Zinc	Zn	Zn 41%, Ag 36%	Zn 68%, Al 18%		Ba 38%, Zn 29%	Zn 35%, Bi 27%		Ca 49%, Zn 33%	Cd 50%, Zn 27%	
Zirconium	Zr		Al 56%, Zr 29%	Au 92%, Zr 5%						Ce 53%, Zr 27%