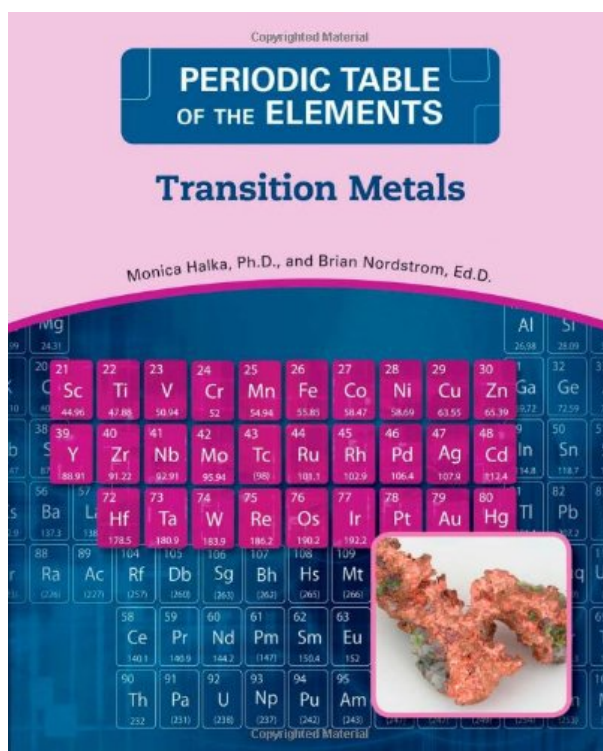


# TRANSITION METALS (PERIODIC TABLE OF THE ELEMENTS) BY MONICA HALKA, BRIAN NORDSTROM



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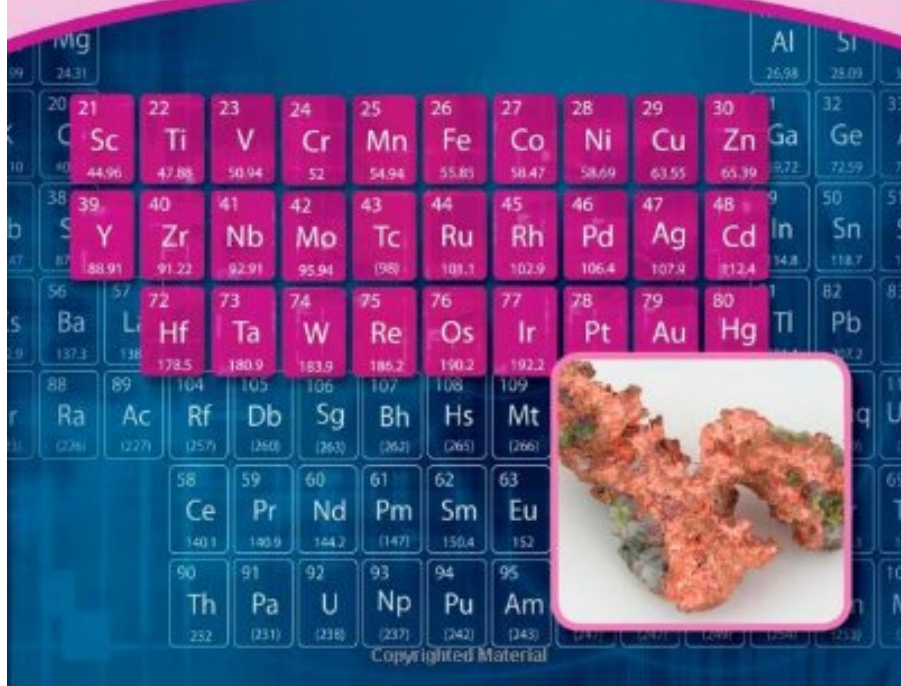
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# PERIODIC TABLE OF THE ELEMENTS

## Transition Metals

Monica Halka, Ph.D., and Brian Nordstrom, Ed.D.



The image shows a periodic table of elements with the transition metals highlighted in pink. The highlighted elements are Scandium (Sc), Titanium (Ti), Vanadium (V), Chromium (Cr), Manganese (Mn), Iron (Fe), Cobalt (Co), Nickel (Ni), Copper (Cu), Zinc (Zn), Yttrium (Y), Zirconium (Zr), Niobium (Nb), Molybdenum (Mo), Technetium (Tc), Ruthenium (Ru), Rhodium (Rh), Palladium (Pd), Silver (Ag), Cadmium (Cd), Hafnium (Hf), Tantalum (Ta), Tungsten (W), Rhenium (Re), Osmium (Os), Iridium (Ir), Platinum (Pt), Gold (Au), and Mercury (Hg). An inset image shows a piece of orange, crystalline transition metal.

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Mg	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As
24.31	40.08	44.96	47.88	50.94	52	54.94	55.85	58.47	58.69	63.55	65.39	69.72	72.59	74.92
38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
K	Ca	Sc	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn
39.0983	40.078	88.906	88.91	91.224	92.906	95.94	(98)	101.07	102.905	106.42	107.868	112.411	114.818	118.710
56	57	72	73	74	75	76	77	78	79	80	81	82	83	84
Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po
137.327	138.905	178.5	180.948	183.84	186.207	190.23	192.225	195.084	196.967	200.59	204.383	207.2	208.98	209
88	89	104	105	106	107	108	109	110	111	112	113	114	115	116
Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt	Uu	Uu	Uu	Uu	Uu	Uu	Uu
(226)	(227)	(261)	(262)	(263)	(264)	(265)	(266)	(288)	(289)	(290)	(291)	(292)	(293)	(294)
58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf
140.12	140.908	144.24	(147)	150.36	151.964	157.25	158.925	162.50	164.930	167.259	168.930	173.054	174.967	178.49
90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Uu	Uu	Uu
232.0377	(231)	(238)	(237)	(244)	(243)	(247)	(247)	(251)	(252)	(257)	(258)	(262)	(263)	(267)

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## About the Author

Brian H. Nordstrom (A.B. and M.S., University of California, Berkeley; Ed.D., Northern Arizona University, Flagstaff) is Professor of Chemistry at Embry-Riddle Aeronautical University, Prescott, Arizona. Nordstrom has over 35 years of college teaching experience that has covered a wide range of academic disciplines-chemistry, physics, mathematics, statistics, environmental science, and history of science. He has published several articles in refereed journals, presented papers at scholarly conferences, and recently co-authored a set of six books about the elements in the periodic table. Whe

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More so than any of the other major groups of elements in the periodic table, the transition metals have shaped human history and have been the workhorses of industry. The discovery of metallic copper ended the Stone Age and ushered in the Bronze Age. Alloys of iron (especially steel) later took over, and the Iron Age replaced the Bronze Age. Copper, silver, and gold and, more recently, platinum have been the precious metals from which coins and jewelry have been made from ancient times to the present.

Each chapter in the new, full-color Transition Metals discusses a group of elements, including their similarities and differences and current research and applications. Ideal for high school or college students interested in chemistry and physics, this straightforward resource is devoted to the chemical and physical properties of transition metals and how they are useful in everyday life.

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## About the Author

Brian H. Nordstrom (A.B. and M.S., University of California, Berkeley; Ed.D., Northern Arizona University, Flagstaff) is Professor of Chemistry at Embry-Riddle Aeronautical University, Prescott, Arizona. Nordstrom has over 35 years of college teaching experience that has covered a wide range of academic disciplines—chemistry, physics, mathematics, statistics, environmental science, and history of science. He has published several articles in refereed journals, presented papers at scholarly conferences, and recently co-authored a set of six books about the elements in the periodic table. Whe

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Brian H. Nordstrom (A.B. and M.S., University of California, Berkeley; Ed.D., Northern Arizona University, Flagstaff) is Professor of Chemistry at Embry-Riddle Aeronautical University, Prescott, Arizona. Nordstrom has over 35 years of college teaching experience that has covered a wide range of academic disciplines-chemistry, physics, mathematics, statistics, environmental science, and history of science. He has published several articles in refereed journals, presented papers at scholarly conferences, and recently co-authored a set of six books about the elements in the periodic table. Whe

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