

# Hovedgrupper

1	2
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# Grundstoffernes periodiske system

# Hovedgrupper

3	4	5	6	7	8
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periode 1

1,00794	1
<b>H</b>	
1	
Hydrogen	

**Eksempel**

Atommassen → 26,98154

Kemisk symbol → **Al**

Atomnummer → 13

Kemisk navn → Aluminium

Antal elektroner i de forskellige skaller → 2, 8, 3

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udgave 2020



4,00260	2
<b>He</b>	
2	
Helium	

periode 2

6,941	2	9,01218	2
<b>Li</b>		<b>Be</b>	
3	1	4	2
Lithium		Beryllium	

10,811	2	12,011	2	14,0067	2	15,9994	2	18,99840	2	20,1797	2
<b>B</b>		<b>C</b>		<b>N</b>		<b>O</b>		<b>F</b>		<b>Ne</b>	
5	3	6	4	7	5	8	6	9	7	10	8
Bor		Carbon		Nitrogen		Oxygen		Fluor		Neon	

periode 3

22,9897	2	24,3050	2
<b>Na</b>		<b>Mg</b>	
11	1	12	2
Natrium		Magnesium	

26,98154	2	28,0855	2	30,97376	2	32,066	2	35,4527	2	39,948	2
<b>Al</b>		<b>Si</b>		<b>P</b>		<b>S</b>		<b>Cl</b>		<b>Ar</b>	
13	3	14	4	15	5	16	6	17	7	18	8
Aluminium		Silicium		Phosphor		Svovl		Clor		Argon	

## Undergrupper

periode 4

39,0983	2	40,078	2	44,9559	2	47,88	2	50,9414	2	51,9961	2	54,9380	2	55,847	2	58,9332	2	58,6937	2	63,546	2	65,39	2	69,723	2	72,61	2	74,9216	2	78,96	2	79,904	2	83,80	2
<b>K</b>		<b>Ca</b>		<b>Sc</b>		<b>Ti</b>		<b>V</b>		<b>Cr</b>		<b>Mn</b>		<b>Fe</b>		<b>Co</b>		<b>Ni</b>		<b>Cu</b>		<b>Zn</b>		<b>Ga</b>		<b>Ge</b>		<b>As</b>		<b>Se</b>		<b>Br</b>		<b>Kr</b>	
19	1	20	2	21	2	22	2	23	2	24	2	25	2	26	2	27	2	28	2	29	2	30	2	31	2	32	2	33	2	34	2	35	2	36	2
Kalium		Calcium		Scandium		Titan		Vanadium		Chrom		Mangan		Ferrum		Cobalt		Nikkel		Kobber		Zink		Gallium		Gernanium		Arsen		Selen		Brom		Krypton	

periode 5

85,4678	2	87,62	2	88,90585	2	91,224	2	92,9064	2	95,94	2	96,9063	2	101,07	2	102,9055	2	106,42	2	107,8682	2	112,411	2	114,818	2	118,71	2	121,757	2	127,60	2	126,9045	2	131,29	2
<b>Rb</b>		<b>Sr</b>		<b>Y</b>		<b>Zr</b>		<b>Nb</b>		<b>Mo</b>		<b>Tc</b>		<b>Ru</b>		<b>Rh</b>		<b>Pd</b>		<b>Ag</b>		<b>Cd</b>		<b>In</b>		<b>Sn</b>		<b>Sb</b>		<b>Te</b>		<b>I</b>		<b>Xe</b>	
37	1	38	2	39	2	40	2	41	2	42	2	43	2	44	2	45	2	46	2	47	2	48	2	49	2	50	2	51	2	52	2	53	2	54	2
Rubidium		Strontium		Yttrium		Zirconium		Niobium		Molybdæn		Technetium		Ruthenium		Rhodium		Palladium		Sølv		Cadmium		Indium		Tin		Antimon		Tellur		Iod		Xenon	

periode 6

132,9054	2	137,327	2	178,49	2	180,9479	2	183,84	2	186,207	2	190,23	2	192,22	2	195,08	2	196,9665	2	200,59	2	204,3833	2	207,2	2	208,9804	2	208,9894	2	209,9871	2	222,0176	2
<b>Cs</b>		<b>Ba</b>		<b>Hf</b>		<b>Ta</b>		<b>W</b>		<b>Re</b>		<b>Os</b>		<b>Ir</b>		<b>Pt</b>		<b>Au</b>		<b>Hg</b>		<b>Tl</b>		<b>Pb</b>		<b>Bi</b>		<b>Po</b>		<b>At</b>		<b>Rn</b>	
55	1	56	2	72	2	73	2	74	2	75	2	76	2	77	2	78	2	79	2	80	2	81	2	82	2	83	2	84	2	85	2	86	2
Cæsium		Barium		Hafnium		Tantal		Wolfram		Rhenium		Osmium		Iridium		Platin		Guld		Kviksølv		Thallium		Bly		Bismuth		Polonium		Astat		Radon	

periode 7

223,019	2	226,0254	2	261,1087	2	262,1136	2	263,1182	2	262,1229	2	265	2	266	2	271	2	272	2	277	2	204,3833	2	207,2	2	208,9804	2	208,9894	2	209,9871	2	222,0176	2
<b>Fr</b>		<b>Ra</b>		<b>Rf</b>		<b>Db</b>		<b>Sg</b>		<b>Bh</b>		<b>Hs</b>		<b>Mt</b>		<b>Ds</b>		<b>Rg</b>		<b>Cn</b>		<b>Nh</b>		<b>Fl</b>		<b>Mc</b>		<b>Lv</b>		<b>Ts</b>		<b>Og</b>	
87	1	88	2	104	2	105	2	106	2	107	2	108	2	109	2	110	2	111	2	112	2	113	2	114	2	115	2	116	2	117	2	118	2
Francium		Radium		Rutherfordium		Dubnium		Seaborgium		Nielsbohrium		Hassium		Meitnerium		Darmstadtium		Roentgenium		Copernicium		Nihonium		Flerovium		Moscovium		Livermorium		Tennes		Oganesson	

- væsker
- luftarter
- faste stoffer
- fremstillet i lab. ved kernereaktioner

138,9055	2	140,115	2	140,908	2	144,24	2	146,9151	2	150,36	2	151,965	2	157,25	2	158,9253	2	162,5	2	164,9303	2	167,26	2	168,9342	2	173,04	2	174,967	2
<b>La</b>		<b>Ce</b>		<b>Pr</b>		<b>Nd</b>		<b>Pm</b>		<b>Sm</b>		<b>Eu</b>		<b>Gd</b>		<b>Tb</b>		<b>Dy</b>		<b>Ho</b>		<b>Er</b>		<b>Tm</b>		<b>Yb</b>		<b>Lu</b>	
57	2	58	2	59	2	60	2	61	2	62	2	63	2	64	2	65	2	66	2	67	2	68	2	69	2	70	2	71	2
Lanthan		Cerium		Lanthan		Cerium		Promethium		Samarium		Europium		Gadolinium		Terbium		Dysprosium		Holmium		Erbium		Thulium		Ytterbium		Lutetium	
227,0278	2	232,0381	2	231,0358	2	238,0289	2	237,0482	2	244,0642	2	243,0614	2	247,0703	2	247,0703	2	251,0796	2	252,0892	2	257,0951	2	258,0986	2	259,1009	2	260,1053	2
<b>Ac</b>		<b>Th</b>		<b>Pa</b>		<b>U</b>		<b>Np</b>		<b>Pu</b>		<b>Am</b>		<b>Cm</b>		<b>Bk</b>		<b>Cf</b>		<b>Es</b>		<b>Fm</b>		<b>Md</b>		<b>No</b>		<b>Lr</b>	
89	2	90	2	91	2	92	2	93	2	94	2	95	2	96	2	97	2	98	2	99	2	100	2	101	2	102	2	103	2
Actinium		Thorium		Protactinium		Uran		Neptunium		Plutonium		Americium		Curium		Berkelium		Californium		Einsteinium		Fermium		Mendelevium		Nobelium		Lawrencium	

denne gruppe er ikke vigtig i skolebrug