



Электродный ряд напряжений металлов
по стандартному электродному потенциалу

Zn Fe Ni Sn Pb (H) Cu Hg Ag Pt Au

Периодическая таблица химических элементов Д.И. Менделеева

Группы	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	
Период 1	H																		
Период 2	Li	Be	B	C	N	O	F	Ne										Ar	
Период 3	Na	Mg	Al	Si	P	S	Cl	Ar										Kr	
Период 4	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	
Период 5	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Au	Hg	Tl	Pb	Bi	Po	At	Rn	
Период 6	Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	
Период 7	Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt										Og

Стандартные электродные потенциалы

Электрод	Э.П.
Li ⁺ /Li	-3,04
K ⁺ /K	-2,93
Rb ⁺ /Rb	-2,92
Cs ⁺ /Cs	-2,92
Ca ²⁺ /Ca	-2,87
Mg ²⁺ /Mg	-2,37
Na ⁺ /Na	-2,35
Zn ²⁺ /Zn	-0,76
Fe ²⁺ /Fe	-0,44
Ni ²⁺ /Ni	-0,25
Co ²⁺ /Co	-0,28
Pb ²⁺ /Pb	-0,13
H ⁺ /H ₂	0,00
Cu ²⁺ /Cu	0,34
Hg ²⁺ /Hg	0,85
Ag ⁺ /Ag	0,80
Au ³⁺ /Au	1,42

Студентка в черном кардигане сидит за партой, читая книгу.

Преподавательница в белом и бежевом свитере стоит и рассматривает документы.

Студентка в коричневом свитере сидит за партой, работает с документами.

Светлая сумка на спинке стула.

Черная сумка на спинке стула.

Стол с учебниками, ручками и очками.

и рудт найрлагын металлын
Ni Sn Pb (H) Cu Hg Ag Pt Au



A standard periodic table of elements is mounted on the wall. The elements are arranged in rows and columns, with their chemical symbols and names in Cyrillic script.



A smaller table or chart is mounted on the wall, likely detailing chemical reactions or properties of elements, with text in Cyrillic.

Two female students are seated at a desk on the left. The student in the foreground is wearing a black cardigan over a white turtleneck and is looking down at an open book. The student behind her is wearing a patterned top and is also looking towards the desk.

A female teacher with glasses and a white and grey sweater is standing and leaning over a desk. She is pointing at a document held by a male student who is looking intently at the paper. The teacher appears to be providing guidance or feedback.

A female student with long dark hair, wearing a brown sweater, is seated at a desk on the right. She is looking towards the camera with a slight smile. On her desk, there are several books, a pen, and a pair of glasses.

The foreground shows a wooden desk with a black speaker, a pen holder with several pens, a stack of books including one with 'ХИМИЯ' (Chemistry) on the cover, and a pair of glasses. A white bag is visible on the left side of the desk.



