

Vodík

H

1s¹

*bezbarvý plyn
bez chuti a zápachu
lehčí než vzduch
hořlavý
redukční vlastnosti*

*palivo
sváření a tavení kovů
ztužování tuků
syntéza sloučenin
energetika*

Helium

He

1s²

*bezbarvý plyn
velice lehký
inertní (nereaktivní)
nehořlavý
supratekutost*

A repeating pattern of white line-art icons on a light gray background. The icons include a microscope, test tubes, a beaker, a flask, a pipette, a retort stand, a Bunsen burner, a molecular structure, and a water drop. The text is centered in a bold, black, sans-serif font.

CHEMICKÉ KVINTETO

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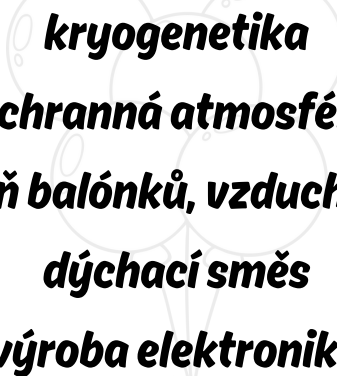
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CHEMICKÉ KVINTETO




kryogenetika
ochranná atmosféra
náplň balónků, vzducholodí
dýchací směs
výroba elektroniky



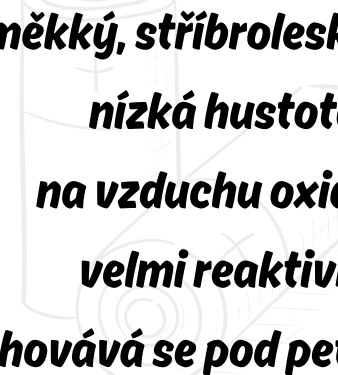
Lithium



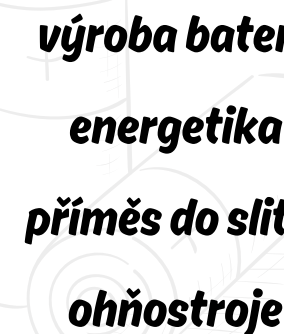
Li



[He] 2s¹



měkký, stříbrolesklý kov
nízká hustota
na vzduchu oxiduje
velmi reaktivní
uchovává se pod petrolejem



výroba baterií
energetika
příměs do slitin
ohňostroje



Sodík



Na



[Ne] 3s¹

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CHEMICKÉ KVINTETO

měkký, stříbrolesklý kov
nízká hustota
na vzduchu oxiduje
velmi reaktivní
uchovává se pod petrolejem

redukční činidlo při výrobě kovů
srdeční a svalová činnost
výroba sloučenin
chladio jaderných reaktorů
výbojky

Draslík

K

[Ar] 4s¹

měkký, stříbrolesklý kov
nízká hustota
na vzduchu oxiduje
velmi reaktivní
uchovává se pod petrolejem

hnojiva
výroba mýdel
srdeční a svalová činnost
příměs do slitin
banány

Hořčík

Mg

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CHEMICKÉ KVINTETO



měkký, stříbrolesklý kov
nízká hustota
na vzduchu oxiduje
reaktivní
hoří bílým oslnivým světlem

činnost nervů
v chlorofylu
součást slitin
proti svalovým křečím
tvrdost vody



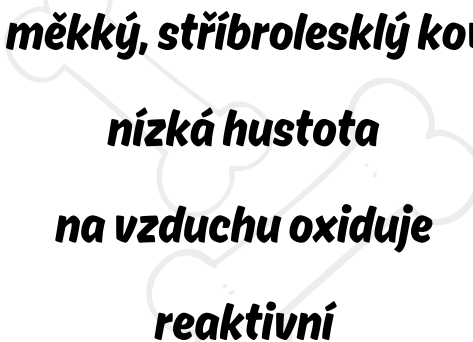
Vápník



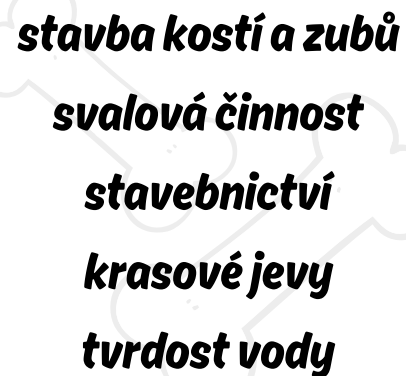
Ca



[Ar] 4s²



měkký, stříbrolesklý kov
nízká hustota
na vzduchu oxiduje
reaktivní



stavba kostí a zubů
svalová činnost
stavebnictví
krasové jevy
tvrdost vody



Bor



CHEMICKÉ KVINTETO



CHEMICKÉ KVINTETO



CHEMICKÉ KVINTETO



CHEMICKÉ KVINTETO



CHEMICKÉ KVINTETO



CHEMICKÉ KVINTETO



CHEMICKÉ KVINTETO



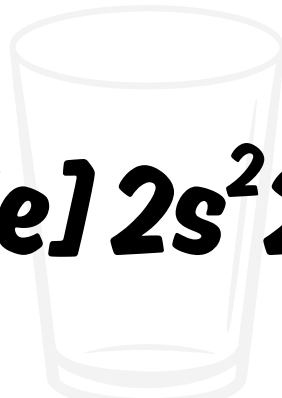
CHEMICKÉ KVINTETO



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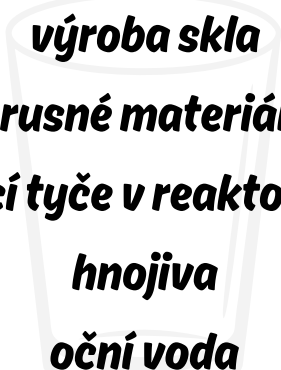


B



[He] 2s²2p¹

pevná, tvrdá, černá látka
allotropické modifikace
polovodič
málo reaktivní
tvoří elektronově deficitní vazby



výroba skla
brusné materiály
řídící tyče v reaktorech
hnojiva
oční voda



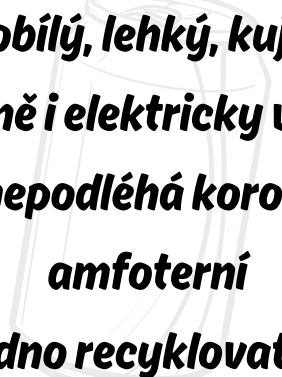
Hliník



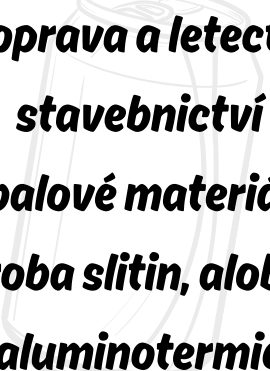
Al



[Ne] 3s²3p¹



stříbrobílý, lehký, kujný kov
tepelně i elektricky vodivý
nepodléhá korozi
amfoterní
snadno recyklovatelný



doprava a letectví
stavebnictví
obalové materiály
výroba slitin, alobalu
aluminotermie

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CHEMICKÉ KVINTETO



Uhlík

C

$[\text{He}] 2s^2 2p^2$

allotropie: grafit, diamant
schopnost řetězit se
méně reaktivní
maximálně čtyřvazný
tvrdý, křehký

výroba elektrod, tužek
vrtné hlavice, šperkařství
adsorbční látka
energetický průmysl
archeologie



Křemík



Si

$[\text{Ne}] 3s^2 3p^2$

tvrdý, křehký, kovově lesklý
méně reaktivní
odolný proti většině kyselin
většinou čtyřvazný
polovodič

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CHEMICKÉ KVINTETO

elektrotechnický průmysl

solární panely

sklářství, keramika

silikony

šperkařství

Dusík

N

$[He] 2s^2 2p^3$

bezbarvý plyn

bez chuti a zápachu

dvouatomové molekuly

vysoká elektronegativita

málo reaktivní

inertní atmosféra

chladivo

hnojiva

součást vzduchu

výbušniny

Fosfor

P

$[Ne] 3s^2 3p^3$

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CHEMICKÉ KVINTETO

tři allotropické modifikace
bílý - na vzduchu samozápalný
bílý - jedovatý
netvoří vodíkové můstky

výroba sloučenin
zápalky, ohňostroje
Coca Cola
bojový plyn
slitiny

Kyslík



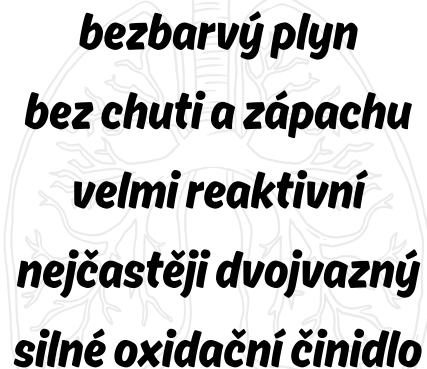
O



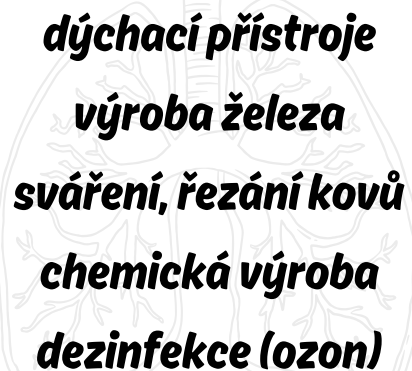
[He] 2s² 2p⁴



bezbarvý plyn
bez chuti a zápachu
velmi reaktivní
nejčastěji dvojvazný
silné oxidační činidlo



dýchací přístroje
výroba železa
sváření, řezání kovů
chemická výroba
dezinfekce (ozon)



Síra



S



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CHEMICKÉ KVINTETO



**žlutá, pevná látka
nerozpustná ve vodě
krystalická, amorfní
velmi reaktivní
hoří modrým plamenem**

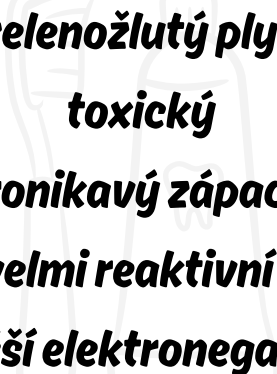
**výroba sloučenin
zápalky, střelný prach
vulkanizace kaučuku
dezinfekce
hnojiva, pesticidy**



Fluor



F



**zelenožlutý plyn
toxický
pronikavý zápach
velmi reaktivní
nevyšší elektronegativita**



**teflon
výroba sloučenin
zubní pasta
jaderná energetika
freony (dříve)**



Chlor



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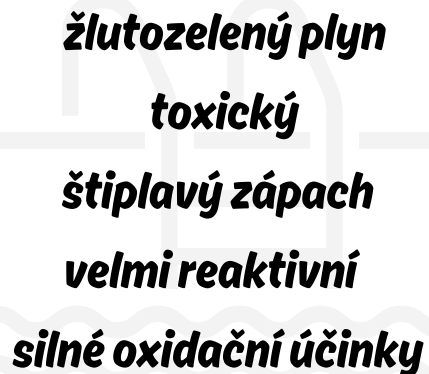
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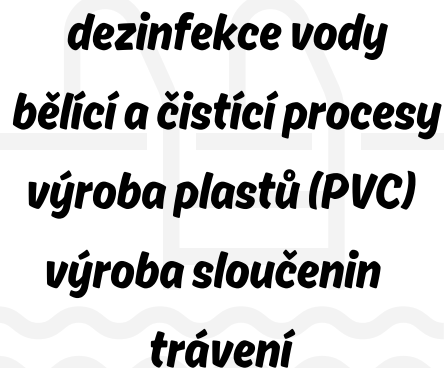
Cl



[Ne] 3s² 3p⁵



**žlutozelený plyn
toxický
štiplavý zápach
velmi reaktivní
silné oxidační účinky**



**dezinfekce vody
bělicí a čistící procesy
výroba plastů (PVC)
výroba sloučenin
trávení**



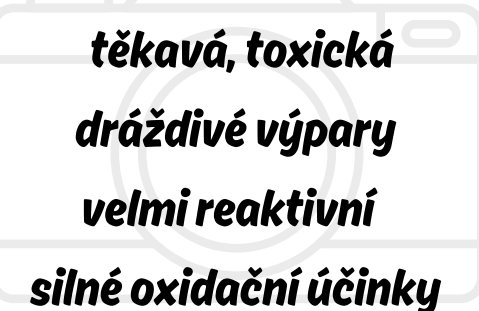
Brom



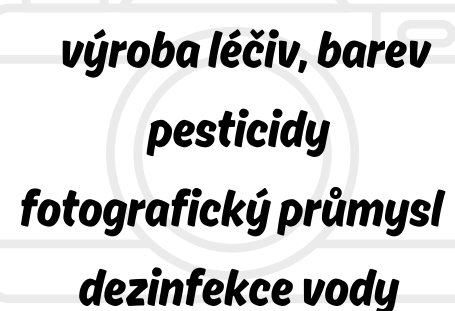
Br



[Ar] 3d¹⁰ 4s² 4p⁵



**červenohnědá kapalina
těkavá, toxická
dráždivé výpary
velmi reaktivní
silné oxidační účinky**



**zpomalovač hoření
výroba léčiv, barev
pesticidy
fotografický průmysl
dezinfekce vody**



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Jod

I

$[\text{Kr}] 4d^{10} 5s^2 5p^5$

fialovočerná, pevná látka

kovový lesk

snadno sublimuje

velmi reaktivní

silné oxidační účinky

štítná žláza

silné antiseptikum

Lugolův roztok

mořské řasy

katalyzátor



Železo



Fe

$[\text{Ar}] 3d^6 4s^2$

stříbrošedý, lesklý kov

feromagnetický

podléhá korozi

kujný a tažný

tepelná a elektrická vodivost



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výroba oceli a litiny
konstrukční materiál
výroba strojů
v těle přenos kyslíku
recyklace

Měď'

Cu

[Ar] 3d¹⁰ 4s¹

červenooranžový kov
měkký, kujný, tažný
tepelná a elektrická vodivost
na vzduchu vznik měděnky

elektrotechnika
stavebnictví
doprava
výroba slitin

Zinek

Zn

[Ar] 3d¹⁰ 4s²



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stříbřitě bílý, lesklý kov
měkký, křehký
tažný, kujný
na vzduchu oxiduje
elektrická vodivost

antikorozi ochrana oceli
výroba slitin
stavebnictví
výroba barviv, gumy
kosmetika

Rtuť

Hg

[Xe] 4f¹⁴ 5d¹⁰ 6s²

stříbrobílý, lesklý kov
kapalný
vysoce toxický
vysoká hustota
odolný vůči vzdušnému kyslíku

elektrotechnika
osvětlení
teploměry
amalgámy
katalyzátor

Olovo

Pb



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stříbrošedý, měkký, těžký kov

jedovatý

tažný, kujný

odolnost proti korozi

špatná elektrická vodivost

výroba akumulátorů

stínicí materiál

střelivo a munice

kovovýroba

stavebnictví



Argon



Ar



bezbarvý plyn

bez chuti a zápachu

inertní (nereaktivní)

nehořlavý, netoxický

těžší než vzduch



ochranná atmosféra

výroba dvojskel

kryomedicína

potravinářství

A repeating pattern of white line-art icons on a light gray background. The icons include a microscope, test tubes, a beaker with liquid, a flask on a stand, a Bunsen burner, a pipette, and a molecular structure. The text is centered in a bold, black, sans-serif font.

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