

MyH^Hna^bHoe Srog^eTHoe o6^eo6pa30BaTe^bHoe ynpe^geHHe
"CpegHHH o6^eo6pa30BaTe^bHaH wbo.ia n. BHTHM"

***Boda -
ee^ecmeo npuebMHOe
u HeodbMHOe***



**Pa6oTy BMno^HHna:
yneHH^ 8 «A» Kaacca
nogoaaH noaHHa**

BHTHM 2021 r.

Bofla - Beu^ecTBO, 6e3 KOTopopo >KM3Hb Ha HeB03 MO>KHa no MMGHH 3eM/m.



Boga - ogHo U3 caMHx pacnrocpraHeHHwx Be^ecra B npyoge (ryroc^epa 3aHUMaeT 71 % noBepxHocy 3eMau). Boge nnyHagae^yT Ba^Heamaa poab B reoapyy, ucropyu naaHeTw. Ee3 Bogw HeBo3Mo*Ho cy^ecraoBaHue *HBUX opauU3MoB. Hy gaa Kopo He ceKpeT, HTO aeaoBeK COCTOYT Ha 80% U3 Bogw. ^TO 3ByayT ygyBureabhO, HO ^TO TaK. PacnyegeaeHa Boga B opauU3Me HepaBHOMepHO. Eoabme Bcero Bogw cogep^yT Mo3p aeaoBeKa — OH COCTOYT U3 Bogw Ha 95%, KpoBb — Ha 82% u aerKue — Ha 90% . npaKTuaeKy Bce 6uoxuMuaeckue pea^uu B Ka^gon *UBOH KaeTKe - ^TO pea^uu B BogHwx pacTBopax. B pacTBopax *e (npeHMy^ecraeHHo BogHwx) nnoTeKaeT 6oabmuHcTBo TexHoapuaeckux nno^ccoB Ha npegnpuaTuax xumuaceKH nnoMwmaeHHocy, B npou3BogCTBe aeKapCTBeHHwx npenapaToB u nu^eBbix nroyKToB. H B MeTaauppy Boga ape3BwaaHHo Ba*Ha, npuaeM He ToabKo gaa oxaa^geHua. He cayaaHHo ryropMeTaauppya - u3BaeaeHue MeTaaaoB u3 pyg u KoH^mpaTOB c noMo^bK pacTBopoB pa3auHHwx peapeHToB - cpaaa Ba^Hoa oTpacabK nnoMwmaeHHocy.

«Bo BceM Mye HeT Huaepo 6oae MarKopo u nogaTauBopo, aeM Boga. Ho oHa ToayT TBeproe u KpenKoe. HHKTO He Mo*eT ee ogoaeTb, xoTa apooa Mo*eT ee noBeyTb. nogaTauBoe no6e*gaeT KpenKoe. MarKoe ogoaeBaeT TBeproe. Bce ^TO 3HaKT, HO HHKTO He ocMeuBaeTca geacTBoBaTb TaK», - nucaa o Boge 6oae gByx c noaoBUHoa TwcaaeaeTua Ha3ag KUTaacKua \$uaoco\$ Hao-^w.

YaeHwe a6coaropao npaBw: HeT Ha 3eMaee Be^ecraa, 6oae Ba^Horo gaa Hac, aeM o6wKHobeHHaa Boga, u B To*e BpeMa He cy^ecrayeT gpyopo TaKopo Be^ecraa, B cBoacraax KoTopopo 6wao 6w croabKo nnoTUBoepaua u aHoMaaua, cKoabKo B ee cBoacraax.

Вода Вещество обобщенное МЖМ

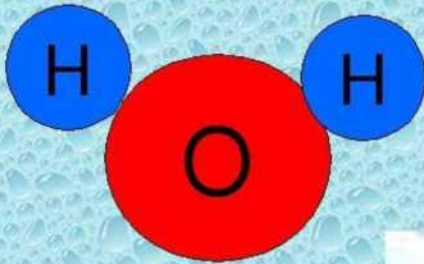
- **риОТМ % / nPepHOCTM Hanzen nnaHeTbi**
 3aHHHO OKeaHAMM H MOpaMM. TBepfIOM
 BOflOM —
- CHepOM H nbfIOM — noKpbuo 20% CyillM. OT**
BOflbi 33BHCT KJIMMaT nnaHeTbi.
reocpH3m<n yTBep>KqaKDT, MTO 3eMnn
ABBHO 6bi ocTbina H npeBpamnacb B
6e3>KM3HeHHbm KyCOK K3MHH, ecjin
6bi He BO,qa. y Hee oneHb SonbLuan
TenneMKOCTb. HarpeBancb, OHa
nornou^aeT Tenno; ocTbiBan, OT,qaET ero.
3eMHan BO,qa H nornou^aeT, H
B03BpamaeT MHOTO Tenna H TeM
caMbiM "BbipaBHHBaeT" KnmviaT.
- OT KOCMHneckoro xonofla npefloxpaHeT
 3eivmio Te MoneKynbi BOflbi, KOTopbie
 pacceHbi B aTMOccjDepe-obnaKa H napbi



«наМHTb» BOgl

Boza - nojyIMHHoe nygo npyrogbi.

• CTpoeHne MoneKynbi BOflbi.



OHa COCTOMT M3 AByX aTOMOB BOflIOpOaA M
 OAHopo aTOMa KMcnopoAa.



BOAB B TBepAOM COCTOHHMM



BOAS B XMAKOM
 COCTOBHMM.

Boza Bra30o6pa3HOM coCT
on HUM

Y 3eM/iM ecTb cHnoLUHan «BOяHa»
 o6o/IOMKa

rnnpoccepa,
KOTopyK) o6pa3yeT BOAS,

HaXOA^LilpBCB B TpeX
COCTOBHMBX.

РемреНОВСКИХ аНану3 срыКТурв Богв ноКаЗан, НТО *угКaa Boga 6ну*е по СБоен СТурКType К ТБеггwM TenaM, а He K pa3aM, nocKonbKy B pa3Me^eHuu MoneKyn Bogw aBHo нрочне^uBanacb HeKoTopaa перынапHocrb - 6ну*HuM нopagoK, xapaKTePHHH gna ТБеггwx Ten. ^TOT 6ну*HuM нopagoK, нруHaTo onucwBaTb TaKuM ноHaTueM KaK МуKpoKnacreпw, KOTOPWMU Ha3wBaroT He6onbmue ycroHHyBwe coBoKynHocrу MoneKyn Bogw. нру ^TOM yHeHwe BwacHunu, НТО y Bogw, nonyHeHHon, K нруMepу, B pe3ынbTaTe TaaHua nbга u y Bogw, nonyHeHHon нpем KOHгeHca^uu napa, СТурКType 6ну*Hero нopagKa 6yгeT pa3нуHHaa - ux МуKpoKnacreпw 6yгyT uMeTb pa3Hoe CTpoeHue. OnwT ноKa3WBaeT, НТО Ha *uBwe opraHy3Mw 6нapoTBopHoe BнuaHue oKa3WBaeT uMeHHo Tanaa Boga.

СТурКTypeHwe pa3нуHua Bogw coxpаHapoTca B TeHeHue onpegeneHHoro BpeMeHu, НТО но3Bonuno yHeHWM poBopуTb o 3aroroHHoM MexaHy3Me "naMaTu" ^TOH yгуBUTenbHon ^ugKocrу. He BW3WBaeT coMHeHue TOT \$aKT, НТО Boga HeKoTopoe BpeMa "noMHuT" ocы^ecpaneHHoe Ha Hee \$у3uHeckoe Bo3гeMCTBue, u ^Ta "3anucaHHaa" B Boge uH\$opMa^ua oKa3WBaeT BнuaHue Ha *uBwe opraHy3Mw, B TOM Hucne Ha HenoBeKa. Begb, KaK y*е poBopunocb, B cocTaB Tena нpо6opo opraHy3Ma Boga BxoryT B BecbMa 3HaHyTenbHwx KonуHeCTBax. HTaK, Boga cнoco6Ha coxpаHaTb B CBoen "naMaTu" pa3Hoo6pa3Hwe \$у3uHeckue Bo3гeHCTBua - ^TO MO*HO CHyTaTb y*е HayHHo гoKa3aHHWM \$aKTOM. Ho ^TO yгуBUTenbHoe CBOHCTBO Bogw oHeHb 6ну3Ko K ToMy, HeM HayKa y*е He 3aHyMaeTca, HO НТО u3BecTно u3 onwTa гyxobHon *u3Hy HenoBeHeCTBa: Boga Mo*eT 6wTb "xpаHyTenbHy^H" u гyxobHwx Bo3гeHCTByH. YHCHWX oHeHb 3auHTepecoBano ^TO CBOHCTBO Bogw u OHU pemunu нpoBecTu uccнeгoBaHue - KaK BнuaeT Ha 3гopoBbe peHb, HanonHeHHaa HenпунуHHwMu Bwpa^eHuaMu, HenпycpоHHwMu cноBaMu, 6paHbro.

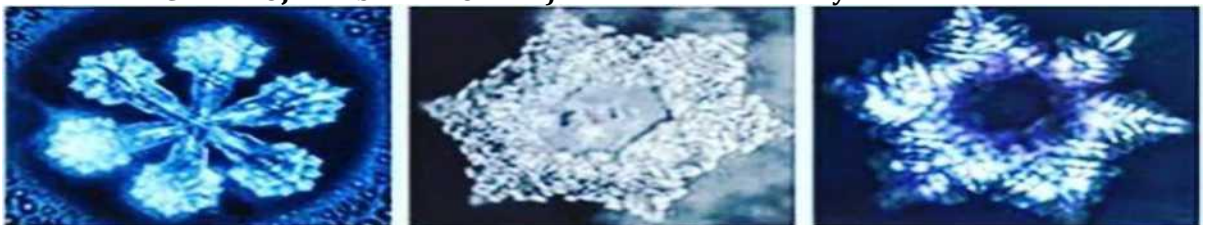
ног гeHCTBueM 3ByKoB, B TOM Hucne u HenoBeHeckон peHu, MoneKynw Bogw (a Hame Teno нруMepHo Ha 80% COCTOYT u3 Hee) HaHyHapoT BwCTpaуBaTbca B cнo^Hwe cpyKType. H B 3aBucuMocTu OT пуTMa u CMWCHOBOH Hapу3Ku ^Tu cpyKType MoryT HeHyTb, u Hao6opoT, oTpaBнаTb opraHy3M.

B 20-M BeKe aноHckун yHeHwn Macapy ^MOTO HayHHo гoKa3ан, НТО Boga He TonbKo BocпpуHuMaeT uH\$opMa^uro, HO Mo*eT MeHaTbca ног Bo3гeHCTBueM cноBa u га*е Mwcну. C ноMo^bro HoBenmero o6opyгoBaHua OH cMor 3aMopo3yTb u c^oTocTpyKTypeBca, MeKаннbнoHToHCKM OH po3дecoфoM MeKаннbнoHToHCKM ypoBHe, ero нopa3uno. Ha \$OICapyeTocTpeHOMBO3HOCCTpMиHа pa3Hon \$opMw u HeTKocrу, c Bугy oHeHb noxoBoeAЧHOBOMKHYBCTBOM, MbIC/lbK).



BoflA, KOTOPOH riEJIM BoflA, KOTOPOA TOBOPM/IM BoflA, KOTOPOA pOBOPMJA

BYAAMCKME MOJIMTBbl «BnAFOAAPK) TEBfl!» «HEHABM>Ky TEBfl!»



«CBflTAFI» BOAA M3 BoflA, KOTOPOA poBOPAHM XPMCTMAHCKOM I4EPKBM «f| JHOBAK) TEBfl!»

TAJIAA BOAA

пpouчo^гeHue ^TO^o caoBa yxoгуT CBOUMU KopHaMu ray6oKO B ucropuro пpouчo^гeHua пyccKopo a3biKa. Bepopae Bcero, OHO oбpa3OBaHO OT пpacaaBaHcKopo *voda. OHO, B cBopo onepeg, BocxoгуT K пpauHгоeBponeMckOMy KopHpo *wed, KOTOpбиM o6o3Hanaa Bogy KaK HeogymeBaeHHyro Baary, ^yгKOCтb. OT ^TO^o KopHa oбpa3OBaaocb caoBO "Boga" BO MHорux a3biKax Mupa:

- B бeaopyccKOM - Baga,
- B cepбckOM u бoapacckOM - Boga,
- B caoBa^OM u nemckOM - voda,
- B no^bCKOM - woda,
- B aHpaуMckOM - water u TaK gaee.

BOт noneMy Bogy Ha3Baau BoroM. B nocaeгpae OT ^TO^o KopHa oбpa3OBaaocb MHO^ecpao caoB. ^a u B Hamy гHu caoBO "Boga" u epo пpou3BогHbie nocpoaHHO y Bcex Ha cayxу.

Свойства воды

1. Bo/ja пpозpaHHafl.
2. Bo,a,a бecy,BeTHaH.
3. Bo^a He HMeeT Заnaxa.
4. Bo/j,a нпн HapеBaHHH pacuиpHeTCH.
5. Bo,zi,a нпн oxjian^eHHH c>KHMaeTCH.
6. Bo^a pacTBopHeT co/ib H caxap.
7. Boj\a He pacTBopaeT MeH H ZeM/no.
8. Bo,n,a OHHii^aeTca c noMon^bio ^HHbTpa
9. Bo,zi,a - TeKyHa.

СВОИСТВА ВОАБИ

- Boga nBjineTCH yHHBepca^bHbiM pacTBopHTejieM g/in no;rapHbix BemecTB.
- Boga o6./iagaeT 6ojibHioH
- Boga HMoeT cTpoibuiyio Ten^oTy HcnapeHHH; 3TO Hcnojibajf'GTCH non TepMoperyjiHu,HH y JKHBOTHWX (noTooT^ejieHHe)
- y Bo^bi 6ojibuiaH Ten^oTa^niiabJieHHH
- C/naoTHocTb ./ib^a MeHbiue njiOTHOCTh Bogbi, noaTOMy OH He TOHeT
- 3HaHTe/ibHoe noBepxHGCTHoe HaTH>KeHHe npraET * Ba>KHyo pojib npn ABHHCCHH Bo/ibi no KannnnnraM OpraHH3MOB
- Bo^a HBjineTxn He(f6xoAHMbiM KOMHOHCTOM MeTa6o^HHecKHx peaKY,HH

МНТепечБие ^aKTy o Boge

HeHoeK 6e3 Bogw Mo*eT npo^yTb He 6onee 5 gHeH.

Ham opranHH3M COCTOYT y3 Bogw 6onee aeM Ha 70%.

TeoneTuaeKy, ecny 6w pacraanu Bee negHyKu Ha nnaHeTe, ypoBeHb Bogw nogHanca 6w 6onee aeM Ha 60 M. H3-3a ^TO^o 3aTonneHHwMu oKa3anucb 6w 15% cymy.

B cpegHeM Ka^gwM aenoBeK e^erogHO noTpe6naeT nny6ny3yrenbHo 60 TOHH Bogw.

E^e co mKonw Bee 3HarOT, HTO y Bogw ecTb 3 arperaTHwx cocpooHua: *yKoe, TBeproe u pa3oo6pa3Hoe. OgHaKo yaeHwe BwgenaroT 5 pa3nyHHwx cocpooHyH Bogw B *yKoeM Buge u 14 cocpooHyH B 3aMep3meM Buge.

Cornacho uccnegoBaHuaM, Boga ycnemHo nopno^aeT uH^aKpacHyro pagua^uro.

Ha gaHHWH MoMeHT, Ha HameH nnaHeTe oKono 1 Munnuapra nrogeH numeHw BO3MO*HOCTY nuTb aucpuro Bogy. TonbKo 3a nocnegHue 50 neT y3-3a npaBa rocTyna K Boge, B Myne npou3omno 6onbme 20 BoeHHwx KOH^UKTOB.

HeCMOTpa Ha TO, HTO 3eMHa 6onee aeM Ha 70% noKpwTa BoroH, numb 1% aBnaeTca npeCHOH.

KpynHeHMyM BogueMoM npeCHOH Bogw aBnaeTca o3epo EaHKaH, HTO B Poccuu.

C geTcTba MW cnwmuM o TOM, HTO cneyeT ^KOHOMUTb Bogy. H ^TO npaBunbHo, Begb caMaa ToHKaa cTpya nnyBoryT K noTepe go 1000 n Bogw e^egHeBHo.

CHer cnoco6eH oTpa^aTb nyHu CBeTa Ha 75%, a Boga nnmb Ha 5%. HMeHHO ^o^TOMy cHe^Hwe HOHU TaKue cBernwe.

YH6HWM yganocb goKa3aTb, HTO Boga uMeeT cnoco6Hocrb 3anoMuHaTb uH\$opMa^uro.

Megy3w Ha 99% cocpocT u3 Bogw.

B oKeaHax Boga uMeeT CUHUUH oTTeHoK u3-3a pacceaHHoro noToKa CBepa.

Ka^gwM rog ucnanaeTca 1 TпуннуoH TOHH Bogw. ^TO Hucно BwrnaguT, KaK egуHu^ c 12 HynaMu.

B A3ep6aMg*aHe cy^ecpaeT pa3HoBugHocrb Bogw, KoTopaa Mo*eT BocннаMeHaTbca. ^To npoucXoguT u3-3a Toro, HTO B ee cocpaBe cogep^урca MHoro MeTaHa.

no gaHHWM poHECKO, caMaa Hucpaa Boga Haxogурca B OuHnaHгуu.

B AHTaпKTугe o6Hapy*eHo o3epo, KoTopoe He 3aMep3aeT ga*e npy TeMnepaType - 50 pпaгыcoB. A Bce u3-3a Toro, HTO B HEM cnumKOM MHoro cony.

B An^upe cy^ecpaeT o3epo, Bory KoToporo MO*HO ucnonb3oBaTb B KaHeCTBe нучbMeHHwx HepHy.

npy MHHC 120 pпaгыcax no ^nbcuro Boga cpaHoByTca cBepxBa3KoH uny TaryHeH, a npy TeMnepaType Hu*e MuHC 135 pпaгыcoB oHa npeBpa^aeTca B "creKnaHHyro" Bory. "CreKnaHHaa" Boga - ^TO TBepгoe Be^ecpao, B KOTOPOM oTcyTCTbyeT KпucpannuHeCKaa cTpyKTypa, KaK B creKne.

Boga He TonbKo gapур *u3Hb, HO Mo*eT u oTHyMaTb ee. 85% BceX 3a6oneBaHuM B Myne nepegaeTca c noMo^bro Bogw. E^erogHo 25 MnH HenoBeK yMupaeT OT ^Tux 3a6oneBaHuM.

Boga Mo*eT 6wTb 6ecннаTHoM, a Mo*eT 6wTb u oHeHb гopopoM. CaMaa гopopaa B Myne Boga npogaeTca B Hoc-AHг^enece. npou3BoryTenu yнаKoBWBapOT гпарo^HHyro ^ugKocrb co c6anaHcupoBaHHWM BKыcoM B 6yTwnKu co cpa3aMu "Swarovski". CTOUT TaKaa Boga 90 \$ 3a 1 n.

Begpa gna Bogw u3poTaBnuBarOT B \$opMe Kohyca gna Toro, HTO6W ux He pa3opBano npy cnyHaHHoM 3aMep3aHuу Bogw.

^na npou3BогCTBa 1 TOHHW cTanu Tpe6yeTca 300 TOHH Bogw.

YHeHbie чHuTapoT, HTO MUPOBOH oKeaH u3yHeH TonbKo Ha 2-7%.

^пeBeчHoe пaCTeHue ^BKану^T B cyTKy нopно^aeT u3 noHBw u ucnanaeT 320 n Bnapy.

CKануcраa 6enKa Mo*eT *uTb 6e3 Bogw go 100 гHeH.

HTaK, MW y3Hanu, HTO Boga - npyBWHHoe, HO B TO *e BпeMa Heo6WHHoe Be^ecpao, nog BнacTbro KOTOPOH HaxoguTca Bca nнаHeTa: oHa ^opMupyeT KnuMaT, aBнаeTca cpeгoH o6yTaHua gna pa3нуHHwx cy^ecpa, nogгep^uBaeT *u3HeгeaTenbHocrb nypeM nepeHoca ^Hep^uu u nuTaTenbHwx Be^ecTB no BceMy Teny opraHu3Ma, 3a^u^aeT Hac, нpогeM, u ^UBOTHWX OT KocMuHeCKoro xonoga, nocToaHHo пepynupyeT KпыpoBopoT Be^ecTB u ^Hep^uu u ^TOT cнучoK MO*HO npogon^aTb u npogon^aTb. H a xoHy cKa3aTb, HTO Boga Ba^HeMmee Be^ecpao Ha 3eMne, 6e3 KOTOPOH HeBo3Mo*Ha *u3Hb.