



atom

EXPERIENCE THE FUN OF LEARNING THE PERIODIC TABLE IN VR

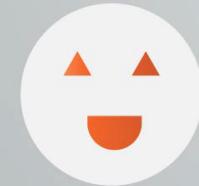
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LEARN PERIODIC TABLE IN VR

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USER FLOW & STORYBOARD

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@SARYALEXANDRIA

LEVEL : NOVICE



150 / 2000

OPEN PERIODIC TABLE

PLAY COMPOUND GAME

THE POP QUIZ



LEADERBOARD

SPLASH SCREEN

THIS SCREEN IS THE MAIN MENU. USER GETS TO ENTER THE PERIODIC TABLE AND ALSO OPEN OTHER GAMIFICATION OPTIONS. USER ALSO GETS TO VIEW HIS LEVEL AND HIS POSITION IN THE LEADERBOARD.

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1	1.01	H	1s¹	Hydrogen	2	4.00	He	1s²	Helium
3	6.94	Li	[He] 2s¹	Lithium	4	9.01	Be	[He] 2s¹	Beryllium
11	22.99	Na	[Ne] 3s¹	Sodium	12	24.30	Mg	[Ne] 3s²	Magnesium
19	39.10	K	[Ar] 4s¹	Potassium	20	40.08	Ca	[Ar] 4s²	Calcium
37	85.47	Rb	[Kr] 5s¹	Rubidium	38	87.62	Sr	[Kr] 5s²	Strontium
55	132.91	Cs	[Xe] 6s¹	Caesium	56	137.33	Ba	[Xe] 6s²	Barium
87	[223]	Fr	[Rn] 7s¹	Francium	88	[226]	Ra	[Rn] 7s²	Radium
57	138.91	La	[Xe] 6s² 5f¹	Lanthanum	58	140.12	Ce	[Xe] 6s² 4f¹ 5d¹	Cerium
89	[227]	Ac	[Rn] 7s² 6d¹	Lanthanum	90	232.04	Th	[Rn] 7s² 6d²	Thorium
59	140.91	Pa	[Rn] 7s² 5f² 6d¹	Protactinium	60	144.24	U	[Rn] 7s² 5f³ 6d¹	Uranium
91	231.04	Np	[Rn] 7s² 5f⁴ 6d¹	Neptunium	92	238.03	Pu	[Rn] 7s² 5f⁶	Plutonium
61	[145]	Pm	[Xe] 6s² 4f³	Praseodymium	62	150.36	Sm	[Xe] 6s² 4f⁶	Samarium
93	[237]	Am	[Rn] 7s² 5f⁷	Americium	94	[244]	Cm	[Rn] 7s² 5f⁷ 6d¹	Curium
63	[146]	Eu	[Xe] 6s² 4f⁷	Europium	64	157.25	Gd	[Xe] 6s² 4f⁵ 5d¹	Gadolinium
95	[243]	Tb	[Rn] 7s² 5f⁸	Terbium	65	158.93	Dy	[Xe] 6s² 4f¹⁰	Dysprosium
96	[247]	Bk	[Rn] 7s² 5f⁹	Berkelium	97	[247]	Cf	[Rn] 7s² 5f⁰	Californium
98	[251]	Es	[Rn] 7s² 5f¹	Einsteinium	99	[252]	Fm	[Rn] 7s² 5f²	Fermium
100	[257]	Md	[Rn] 7s² 5f³	Mendelevium	101	[258]	No	[Rn] 7s² 5f⁴	Nobelium
102	[262]	Lr	[Rn] 7s² 5f⁴ 7p¹	Lawrencium	103	[262]			

PERIODIC TABLE SCREEN

THIS SCREEN DISPLAYS THE ENTIRE PERIODIC TABLE
IN A 3D VIEW. HERE THE USER GETS TO PICK ANY ELEMENT.

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HELUM

NOBLE GAS

SYMBOL

HE

ATOMIC NUMBER

2

ATOMIC WEIGHT

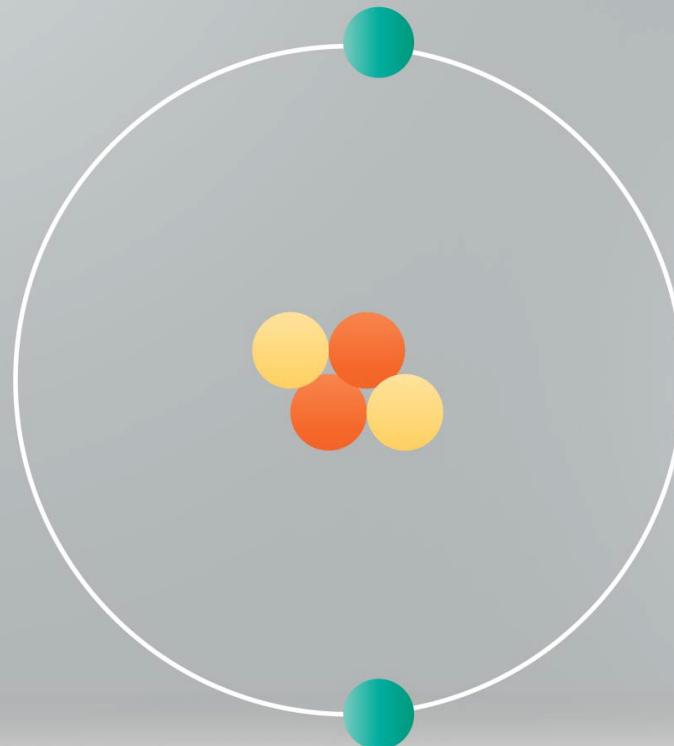
4.002

NEUTRONS

2

PROTONS/ELECTRONS

2



DETAILED VIEW - ATOMIC STRUCTURE

WHEN ANY ELEMENT IS SELECTED USER GETS TO SEE THE DETAILS ABOUT THE ELEMENT. ALSO THE ATOMIC STRUCTURE WILL BE VISIBLE IN LIFE SIZE 3D.

atom

atom

HELUM

NOBLE GAS

SYMBOL

HE

ATOMIC NUMBER

2

ATOMIC WEIGHT

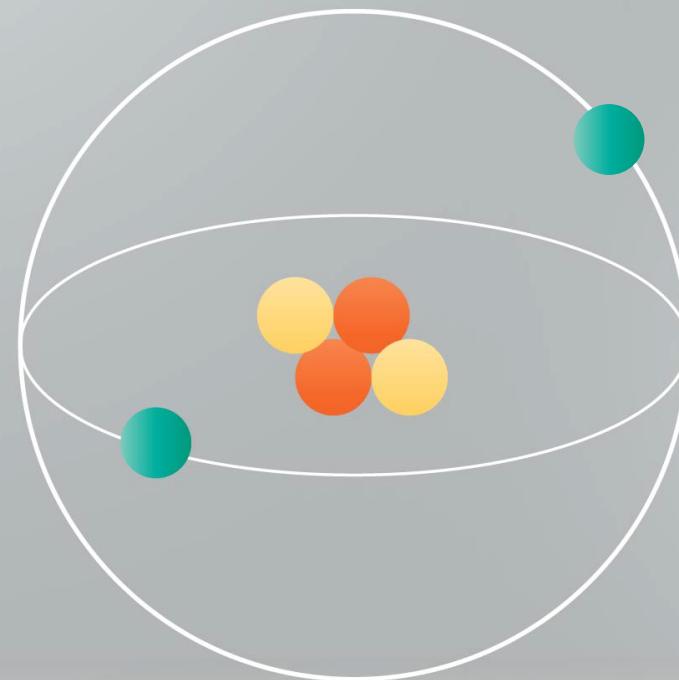
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NEUTRONS

2

PROTONS/ELECTRONS

2



DETAILED VIEW - ATOMIC STRUCTURE

HERE THE USER ALSO GETS TO INTERACT WITH THE ATOMIC STRUCTURE BY FLIPPING IT AROUND AND WALKING AROUND IT TOO TO HAVE A LOOK AT THE ATOMIC STRUCTURE IN DETAIL.

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LEVEL : NOVICE



150/2000

OPEN PERIODIC TABLE

PLAY COMPOUND GAME

THE POP QUIZ



LEADERBOARD



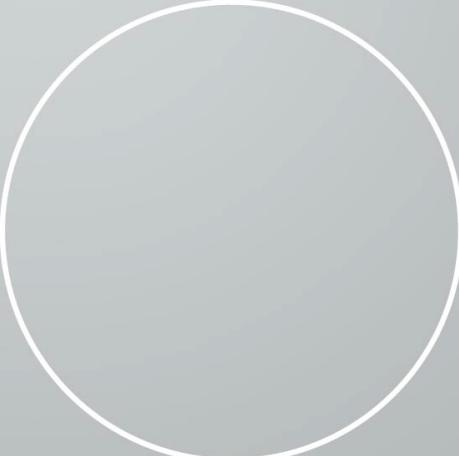
GAMIFICATION

APART FROM LEARNING ABOUT THE ELEMENTS. USER CAN ALSO PLAY GAMES TO REVISE HIS LEARNING THROUGH DIFFERENT INTERACTIVE GAMES

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FORM THE COMPOUND OF
WATER



1 H	2 He
3 Li	4 Be
5 Na	6 Mg
7 K	8 Ca
9 Rb	10 Sr
11 Cs	12 Ba
13 Fr	14 Ra
15 Sc	16 Ti
17 Y	18 Zr
19 Hf	20 Ta
21 Rf	22 Db
23 Sg	24 Bh
25 Np	26 Pu
27 Co	28 Fe
29 Ni	30 Mn
31 Ru	32 Rh
33 Os	34 Ir
35 Pd	36 Pt
37 Ag	38 Cd
39 In	40 Sn
41 Ga	42 Ge
43 Ge	44 As
45 Se	46 Br
47 At	48 Rn
49 Bi	50 Po
51 Tl	52 Pb
53 Sb	54 Te
55 I	56 Xe
57 Lu	58 Ce
59 Pr	60 Nd
61 Sm	62 Eu
63 Gd	64 Tb
65 Ho	66 Er
67 Tm	68 Yb
69 Lu	70 La
71 Ac	72 Th
73 Pa	74 U
75 Np	76 Pu
77 Am	78 Cm
79 Bk	80 Cf
81 Es	82 Fm
83 Md	84 No
85 Ts	86 Og

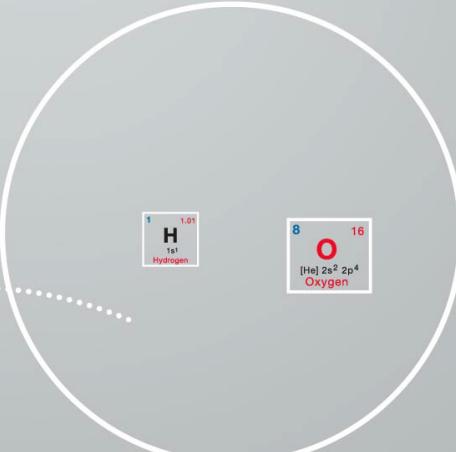
FORM THE COMPOUND GAME

THE APP WILL PROMPT THE USER TO FORM COMPOUND.

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FORM THE COMPOUND OF
WATER



1 H 1.01 Hydrogen	2 He 4.00 Helium
3 Li 6.94 Lithium	4 Be 9.01 Beryllium
11 Na 22.99 Sodium	12 Mg 24.30 Magnesium
19 K 39.10 Potassium	20 Ca 40.08 Calcium
37 Rb 80.47 Rubidium	38 Sr 87.62 Strontium
55 Cs 132.91 Cesium	56 Ba 137.33 Barium
87 Fr 223.0 Francium	88 Ra 228.0 Radon
4 Sc 22.99 Scandium	5 Ti 44.90 Titanium
21 Ca 40.08 Calcium	22 V 51.94 Vanadium
39 Zr 88.91 Zirconium	40 Cr 52.00 Chromium
72 Hf 178.49 Hafnium	73 Ta 180.93 Tantalum
104 Rf 224.0 Rutherfordium	105 Db 262.0 Dubnium
89 Ac 227.0 Actinium	90 Th 232.0 Thorium
91 Pa 231.04 Protactinium	92 U 238.03 Uranium
93 Np 237.0 Neptunium	94 Pu 244.0 Plutonium
95 Am 243.0 Americium	96 Cm 247.0 Curium
97 Bk 247.0 Berkelium	98 Cf 251.0 Californium
99 Es 252.0 Einsteinium	100 Fm 257.0 Fermium
101 Md 253.0 Mendelevium	102 No 258.0 Neptunium
103 Lr 259.0 Lawrencium	
5 Be 9.01 Beryllium	6 C 10.81 Boron
14 N 14.01 Nitrogen	15 O 16.00 Oxygen
16 F 19.00 Fluorine	17 Cl 35.45 Chlorine
18 Ne 20.18 Neon	19 Ar 39.90 Argon
20 Si 28.09 Silicon	21 P 30.97 Phosphorus
22 S 32.07 Sulfur	23 S 32.07 Sulfur
24 Se 36.09 Selenium	25 Br 79.90 Bromine
26 Ge 74.92 Germanium	27 Kr 83.80 Krypton
28 As 78.96 Arsenic	29 Te 126.90 Tellurium
30 Se 74.92 Germanium	31 I 131.93 Iodine
32 Br 79.90 Bromine	33 At 210.00 Radon
34 Po 208.99 Polonium	35 Rn 222.00 Radon
36 At 210.00 Radon	

FORM THE COMPOUND GAME

FOR EG: WATER.

THE USER HAS TO DRAG AND DROP 2 HYDROGEN ATOMS
AND 1 OXYGEN ATOM INTO THE RING

atom

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WATER



FORM THE COMPOUND GAME

WHEN THE COMPOUND IS FORMED. USER GETS TO
VISUALISE AND INTERACT WITH THE MOLECULAR STRUCTURE
OF THE COMPOUND IN 3D.

atom

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