

Monatomic Ions Practice

Students will be the ones who benefit from the use of this program to memorize the common monatomic ions, symbols, and charges.

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' Some common monatomic ion symbols and charges practice program
' version 1.0
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' some .wav files have been remmed out- feel free to replace them with
' your own buzzers and bells (it gets annoying after a short while)
nomainwin

WindowWidth = 640
WindowHeight = 360
UpperLeftX = int((DisplayWidth-WindowWidth)/2)
UpperLeftY = int((DisplayHeight-WindowHeight)/2)
'playwave "startup.wav",sync
graphicbox #w.g, 10, 10, 600, 200
statictext #w.s,
"Enter the symbol and charge of the ion (no spaces)", 10, 288, 400, 30
textbox #w.tb1, 10, 240, 200, 32
textbox #w.tb2, 20,25,580,180
button #w.b1, "Check", [entered], LR, 300, 45, 60, 30
button #w.b2, "Next Ion", [continue], LR, 200,45,60,30
button #w.b3,"Score", [score],LR, 100,45,60,30
open "Monatomic Ion Practice" for window as #w
#w, "trapclose [quit]"
#w.tb1 "!font arial 16 bold"
#w.s "!font arial 12"
#w.tb2 "!font arial 60 bold"
#w.tb1 "!setfocus"
correct = 0
count = 0
for j = 1 to 28
#w.tb1, ""
#w.tb2, ""
#w.tb1 "!setfocus"
read name$, sycharge$
#w.tb2, name$
wait
[entered]
#w.tb1 "!contents? reply$"
if reply$ = sycharge$ then
#w.tb2, "Correct!"
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'playwave "hallelujah.wav",sync
'playwave "beep.wav",async
correct = correct + 1
count = count + 1
else
#w.tb2, "STUDY MORE"
'playwave "madcow.wav",sync
'playwave "tpirbuzz.wav",sync
correct = correct
count = count + 1
end if

wait
[continue]

next j

wait
data "lithium", "Li+1", "copper (II)", "Cu+2", "phosphide",
"P-3", "aluminum", "Al+3", "barium", "Ba+2"
data "bromide", "Br-1", "iron (III)", "Fe+3", "magnesium", "Mg+2",
"nitride", "N-3", "chloride", "Cl-1"
data "tin(IV)", "Sn+4", "zinc", "Zn+2", "calcium", "Ca+2", "sodium",
"Na+1", "copper(I)", "Cu+1", "lead(IV)", "Pb+4"
data "mercury(I)", "Hg+1", "sulfide", "S-2", "silver", "Ag+1",
"tin(II)", "Sn+2", "iron(II)", "Fe+2", "cobalt(II)", "Co+2"
data "oxide", "O-2", "fluoride", "F-1", "cadmium", "Cd+2", "iodide",
"I-1", "lead(II)", "Pb+2", "nickel(II)"
data "Ni+2", "end", 0
[score]
percent = (correct/count) * 100
rounded = int(percent*10^2 +0.5) / 10^2
#w.tb2, rounded; " % right"
wait
[quit]
close #w
end
```