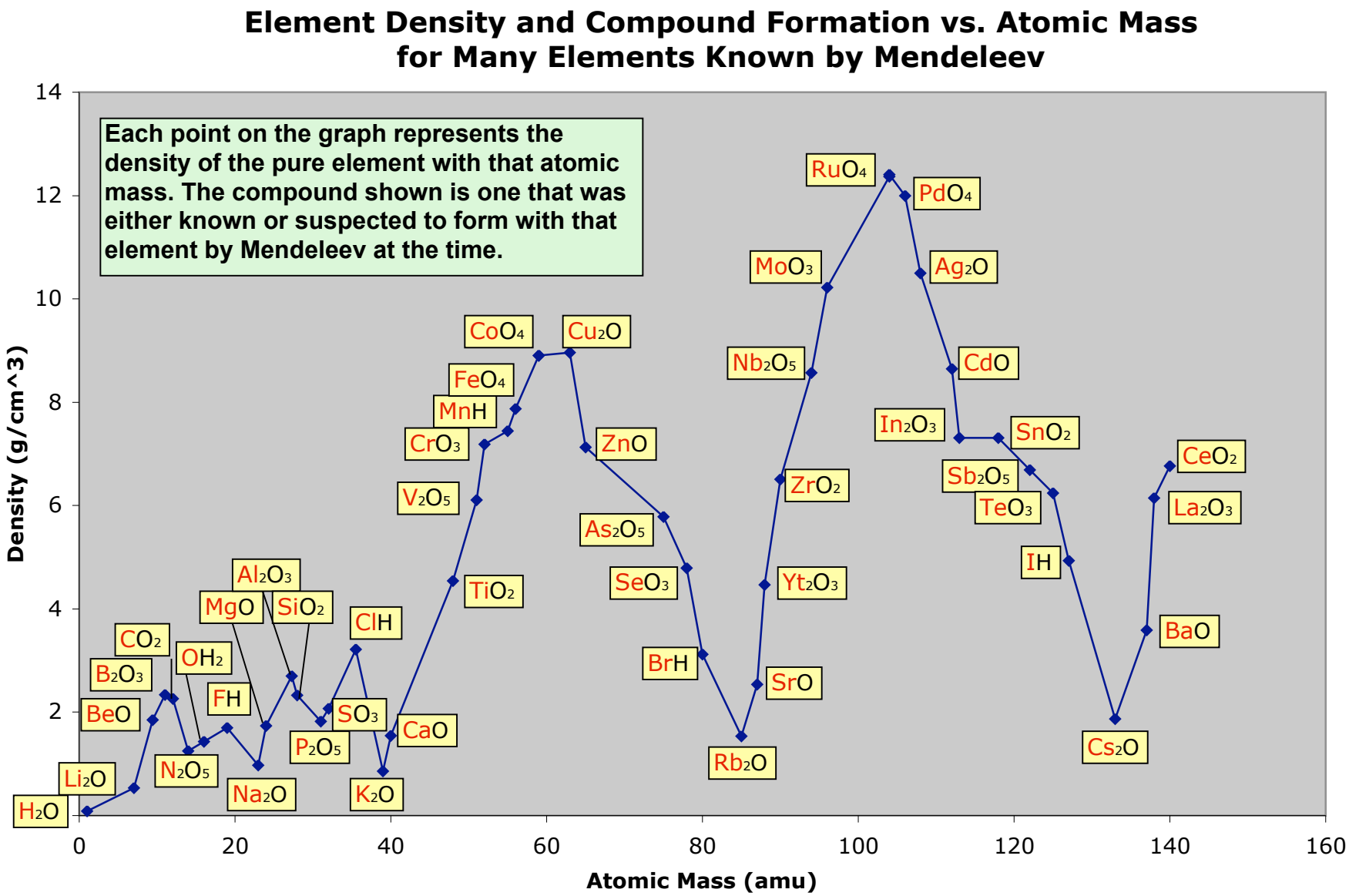
Element Density and Compound Formation vs. Atomic Mass
for Many Elements Known by Mendeleev
Each point on the graph represents the density of the pure element with that atomic mass. The compound shown is one that was either known or suspected to form with that element by Mendeleev at the time.
Density (g/cm^3)
Atomic Mass (amu)
0
20
40
60
80
100
120
140
160
2
4
6
8
10
12
14
H2O
Li2O
BeO
B2O3
CO2
N2O5
OH2
FH
Na2O
MgO
Al2O3
SiO2
P2O5
SO3
ClH
K2O
CaO
CrO3
V2O5
MnH
FeO4
CoO4
TiO2
Cu2O
ZnO
As2O5
SeO3
BrH
Rb2O
SrO
Yt2O3
ZrO2
Nb2O5
MoO3
RuO4
PdO4
Ag2O
CdO
In2O3
SnO2
Sb2O5
TeO3
IH
Cs2O
BaO
La2O3
CeO2