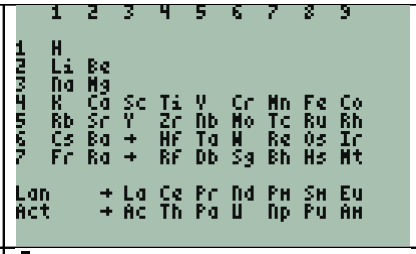
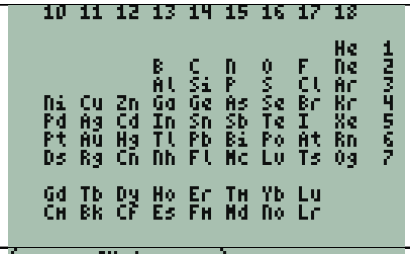
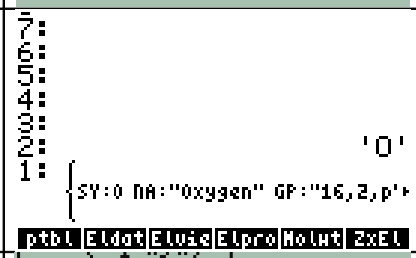
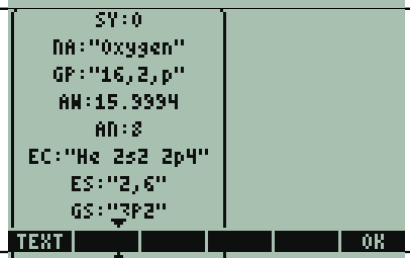
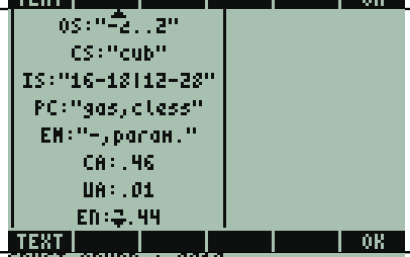
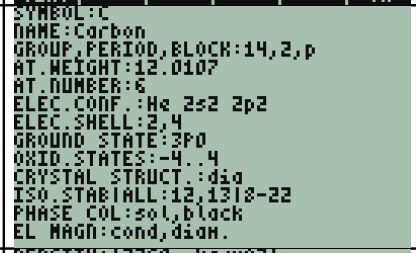
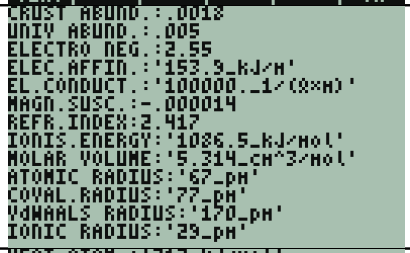
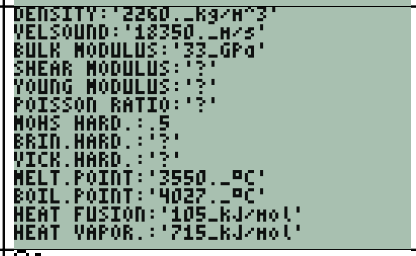
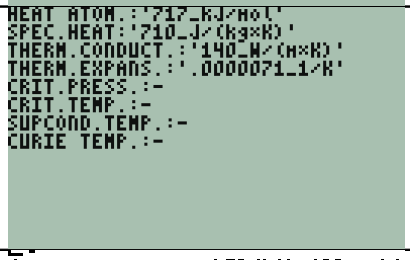
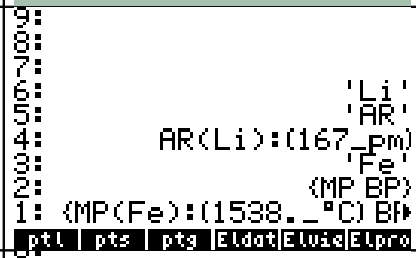
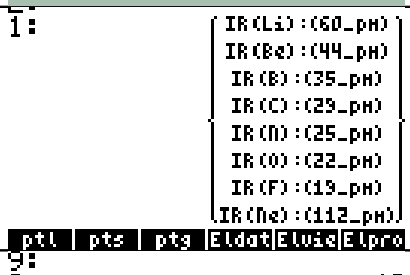
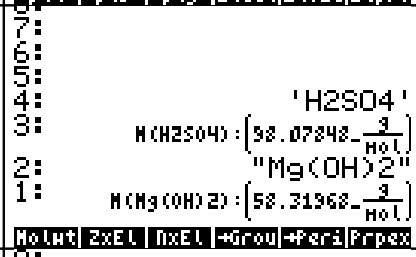
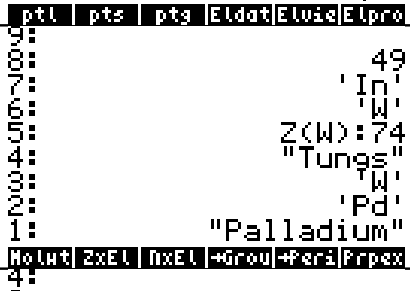
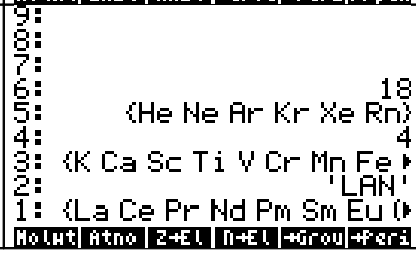
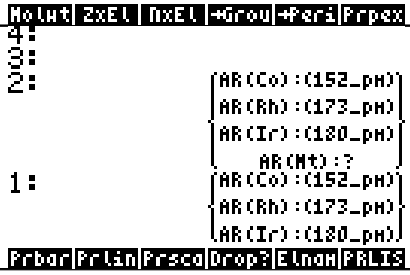
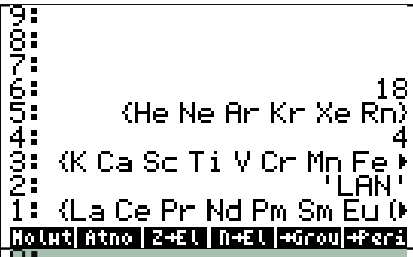
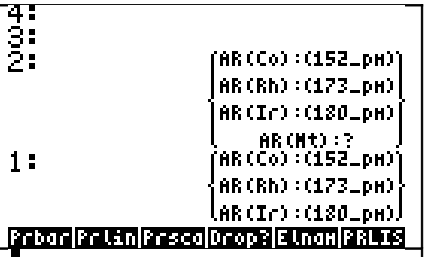
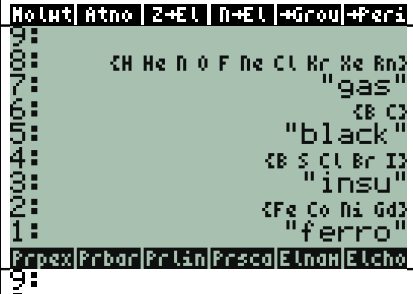
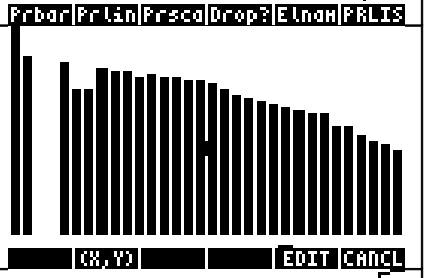
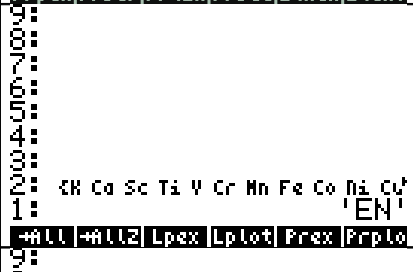
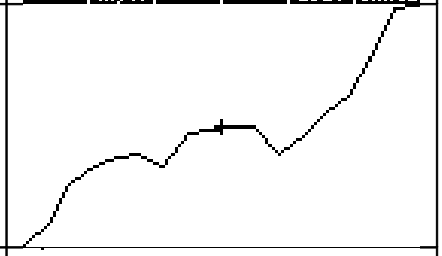
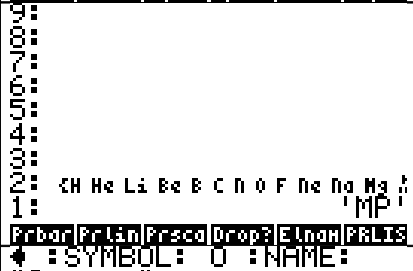
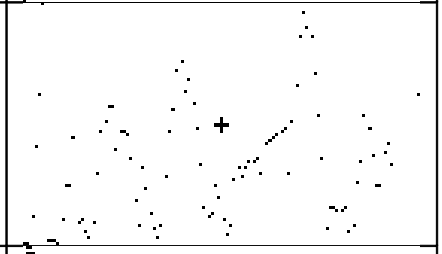
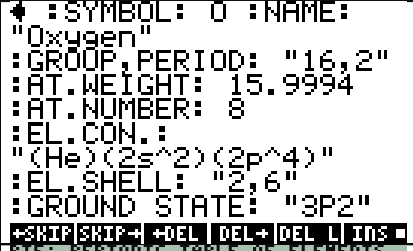
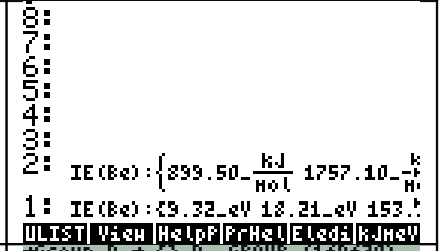
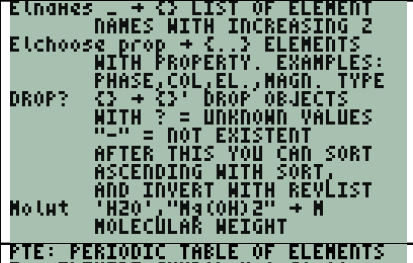
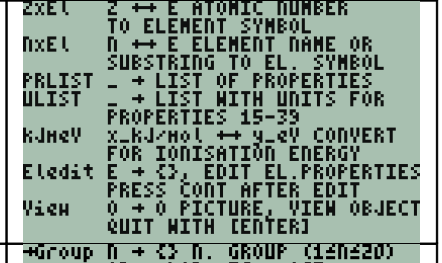
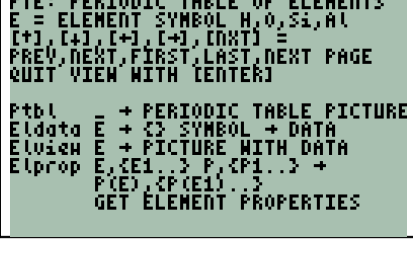
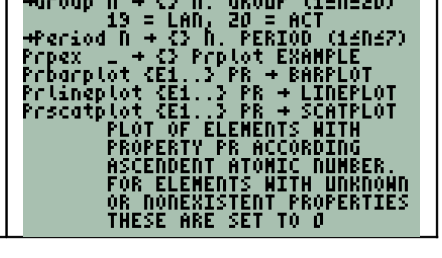
PTE

ptbl: periodic table of elements page1,2		
Eldata: element data vertical view		
vertical view, end		
Elview: view element data page 1 page 2		
page 3 page 4		
Elprop: AR atomic radius of Li, melting-, boiling-point of Fe (1.5s) Elprop: IR ionic radii of second period		
Molwt: molweight ZxEl, NxEl: atomic number, string to symbol		
→Group, →Period: elements of 18 group, 4 period, Lanthanides Drop?: omit elements with unknown properties		

→Group, →Period: elements of 18 group, 4 period, Lanthanides Drop?: omit elements with unknown properties		
Elchoose: choose elements with certain properties Prbarplot: barplot of atomic radii of 6. period		
Prlineplot: lineplot of electro negativity of 4. period		
Prscatplot: scatterplot of melting points of all elements		
Eledit: edit element data kJmeV: kJ/mol to eV		
PRLIST: list with >50 element properties page 1 page 2		
		
HelpPTE: help page 1		

HelpPTE: help	DROP? {} → {}' DROP OBJECTS WITH ? = UNKNOWN VALUES "-" = NOT EXISTENT AFTER THIS YOU CAN SORT ASCENDING WITH SORT, AND INVERT WITH REVLIST Elnames _ → {} LIST OF ELEMENT NAMES WITH INCREASING Z Molwt 'H2O','Mg(OH)2' → M MOLECULAR WEIGHT ZxEl Z ↔ E ATOMIC NUMBER TO ELEMENT SYMBOL	NxEl N ↔ E ELEMENT NAME OR SUBSTRING TO EL. SYMBOL PRLIST _ → LIST OF PROPERTIES ULIST _ → LIST WITH UNITS FOR PROPERTIES 15-39 View O → O PICTURE,VIEW OBJECT END WITH [ENTER] Eledit E → {}, EDIT EL.PROPERTIES PRESS CONT AFTER EDIT PrHelp HELP TO ELEM. PROPERTIES Lele LIST WITH ELEMENT DATA kJneV x_kJ/mol ↔ y_eV CONVERT FOR IONISATION ENERGY
HelpPTE: help	DROP? {} → {}' DROP OBJECTS WITH ? = UNKNOWN VALUES "-" = NOT EXISTENT AFTER THIS YOU CAN SORT ASCENDING WITH SORT, AND INVERT WITH REVLIST Elnames _ → {} LIST OF ELEMENT NAMES WITH INCREASING Z Molwt 'H2O','Mg(OH)2' → M MOLECULAR WEIGHT ZxEl Z ↔ E ATOMIC NUMBER TO ELEMENT SYMBOL	NxEl N ↔ E ELEMENT NAME OR SUBSTRING TO EL. SYMBOL PRLIST _ → LIST OF PROPERTIES ULIST _ → LIST WITH UNITS FOR PROPERTIES 15-39 View O → O PICTURE,VIEW OBJECT END WITH [ENTER] Eledit E → {}, EDIT EL.PROPERTIES PRESS CONT AFTER EDIT PrHelp HELP TO ELEM. PROPERTIES Lele LIST WITH ELEMENT DATA kJneV x_kJ/mol ↔ y_eV CONVERT FOR IONISATION ENERGY
PrHelp: help to properties choose box	RAD CHOM ELEMENT PROPERTIES HELP 7: SY SYMBOL 6: NA NAME 5: GP GROUP,PERIOD,BLOCK 4: AW AT.WEIGHT 3: AN AT.NUMBER 2: EC ELEC.CONF. 1: ES ELEC.SHELL GS GROUND STATE CANCL OK	RAD CHOM ELEMENT PROPERTIES HELP 7: OS OXID.STATES 6: CS CRYST.STRUCT. 5: IS ISO. STABIALL 4: PC PHASE COLOUR 3: EM EL. MAGN. 2: CA CRUST ABUND. 1: UA UNIV. ABUND. EN ELECTRO NEGAT. CANCL OK
PrHelp: help to properties choose box	RAD CHOM ELEMENT PROPERTIES HELP 7: EA ELEC.AFFIN. 6: EL EL.CONDUCT. 5: MS MAGN.SUSC. 4: RF REFR.INDEX 3: IE IONIS.ENERGY 2: MV MOLAR VOLUME 1: AR ATOMIC RADIUS CO COVAL.RADIUS CANCL OK	RAD CHOM ELEMENT PROPERTIES HELP 7: WR VdWAALS RADIUS 6: IR IONIC RADIUS 5: DE DENSITY 4: VS VEL. SOUND 3: BM BULK MODULUS 2: SM SHEAR MODULUS 1: YM YOUNG MODULUS PR POISSON RATIO CANCL OK
PrHelp: help to properties choose box	RAD CHOM ELEMENT PROPERTIES HELP 7: MH MOHS HARD. 6: BH BRIN.HARD. 5: VH VICK.HARD. 4: MP MELT.POINT 3: BP BOIL.POINT 2: HF HEAT FUSION 1: HV HEAT VAPOR. HA HEAT ATOM. CANCL OK	RAD CHOM ELEMENT PROPERTIES HELP 7: HA HEAT ATOM. 6: SH SPEC.HEAT 5: TC THER.COND. 4: TE THERM.EXPANS. 3: CP CRIT.PRESS. 2: CT CRIT.TEMP. 1: SC SUP.COND. CU CURIE TEMP. CANCL OK
PrHelp: OK gives help	AW AT.WEIGHT atomic mass relative to mC12/12 GRAPH OK	ES EL.SHELL electron shellconf. electron-number in shell K,L.. GRAPH OK
PrHelp: OK gives help	GS GROUND STATE 2S+1 L J GRAPH OK	CS CRYST.STRUCT. crystal struct. cub cubic fcc face centered cubic bcc body centered cubic hex hexagonal tet tetragonal mcl monoclinic dia diamond orc orthorhombic rhl rhombohedral scb simple cubic GRAPH OK
PrHelp: OK gives help	MS MAGN.SUSC. volume magnetic susceptibility, degree of magnetisation in external field X B=μ×H, μ=μ0×(1+X) B=magnetic induction, H=magnetic field, Xmass=X/ρ mass susceptibility, Xmol=M×Xmass molar susceptiblity GRAPH OK	AR AT.RADIUS 1_pm atomic radius distance nucleus-outest electron GRAPH OK

PrHelp: OK gives help	SM SHEAR MOD. 1_GPa shear modulus, shear stress/strain G, G=(F/A)/(Δx/I), F=force,A=area, Δx=displacement,I=initial length GRAPH OK	VH VICK.HARD. 1_MPa Vickers hardness, indentation of pyramid HV=F/A≈1.854×F/d^2, F=force, A=area, d=diameter pyramide GRAPH OK
PrHelp: OK gives help	SH SPEC.HEAT 1_J/(kg×K) specific heat capacity, energy to change temperature of 1kg by 1K, c=dQ/dT, cp,cV at constant pressure, volume GRAPH OK	TE THERM.EXP. 1_1/K thermal linear expansion α, α=(ΔL/L)/ΔT ΔL=Lfinal-Linitial, L=Linitial, ΔT=temperature difference GRAPH OK