

WEST CHESTER UNIVERSITY PERIODIC TABLE DISPLAY

No:	Sym:	Element:	Sample:	Quantity:	Location:
1	H	Hydrogen	Hydrogen gas in 60mm quartz sphere, on ring stand	~110ml	center
1	H	Hydrogen	Deuterium gas in 40mm quartz sphere, on ring stand	~30ml	center [to right of hydrogen sphere]
1	H	Hydrogen	Water [H ₂ O], ampouled, in 14ml engraved vial	5.08g	against left hand wall [smaller engraved caps alongside for identification]
1	H	Hydrogen	Heavy water [D ₂ O] under argon, ampouled, in 14ml engraved vial	5.08g	against right hand wall [smaller engraved caps alongside for identification]
1	H	Hydrogen	Nite Glow Ring (clear) - contains tritium	1	center, in front of hydrogen sphere
1	H	Hydrogen	Backdrop: Photograph of the Sun	-	back wall
2	He	Helium	Helium discharge tube in shape of element symbol	-	center
3	Li	Lithium	Lithium metal rod under argon, ampouled, embedded in 14ml engraved vial	1.09g	back center
3	Li	Lithium	Sterling silver [92.5% Ag] ring with 5 faceted pink oval kunzites, [LiAlSi ₂ O ₆]	1 piece	center right, between kunzite and petalite
3	Li	Lithium	Weldtite TF2 White Lithium Grease	40g	back left hand corner
3	Li	Lithium	Priadel 200mg Lithium carbonate tablets, on watch glass, 10	5 tablets	center, against left wall
3	Li	Lithium	CR2025 3v Lithium Battery, on watch glass	1 piece	center, in front of lithium metal sample
3	Li	Lithium	Mineral: Petalite [LiAlSi ₄ O ₁₀] - Varutrask, Vasterbotten, Sweden	1 piece	front right hand corner
3	Li	Lithium	Mineral: Lepidolite mica [K(Li,Al) ₃ (Si,Al) ₄ O ₁₀ (F,OH) ₂] - locality not known	1 piece	against right hand wall, behind petalite
3	Li	Lithium	Mineral: Kunzite, pink - gem variety of spodumene [LiAlSi ₂ O ₆] - Sari Sang, Afghanistan, on watch glass	12.0735g	front left, in front of lithium carbonate
3	Li	Lithium	Lithium carbonate [Li ₂ CO ₃] in 14ml engraved vial	19.01g	center left, in front of lithium grease, behind watch glass of kunzite
3	Li	Lithium	Lithium chloride [LiCl] in 7ml engraved vial	11.59g	center right, between lithium metal and lithium tantalate
3	Li	Lithium	Lithium tantalate [LiTaO ₃] in 7ml engraved vial	14.01g	back right, to right of lithium tantalate
4	Be	Beryllium	Crystalline lump of beryllium metal	65.2866g	center
4	Be	Beryllium	Mineral: Aquamarine - blue variety of beryl [Be ₃ Al ₂ Si ₆ O ₁₈] - Namibia, on watch glass	4.0364g	front right, mixed on watch glass
4	Be	Beryllium	Mineral: Emerald, rough - green variety of beryl [Be ₃ Al ₂ Si ₆ O ₁₈] - locality not known, on watch glass	4.1381g	front right, mixed on watch glass
4	Be	Beryllium	Mineral: Morganite - pink variety of beryl [Be ₃ Al ₂ Si ₆ O ₁₈] - Paprook Mine, Afghanistan, on watch glass	5.5579g	front right, mixed on watch glass
4	Be	Beryllium	Mineral: Goshenite - clear variety of beryl [Be ₃ Al ₂ Si ₆ O ₁₈] - locality not known, on watch glass	4.7793g	front right, mixed on watch glass
4	Be	Beryllium	Mineral: Chrysoberyl [BeAl ₂ O ₄] - Kolsva, Vastmanland, Sweden	1 piece	center right, between golf club head and beryl samples
4	Be	Beryllium	Beryllium x-ray window, 33 x 20 x 0.2mm	2 pieces	front right hand corner
4	Be	Beryllium	Head of Bob Tosker beryllium copper golf club	1 piece	across back wall
4	Be	Beryllium	Backdrop: Beryllium copper foil	-	back wall
5	B	Boron	Lumps of crystalline boron, in 50ml reagent jar	44.24g	center, back wall
5	B	Boron	Amorphous boron powder, in 14ml engraved vial	11.71g	center, to right of reagent jar
5	B	Boron	Borax - [Na ₂ B ₄ O ₇ (OH) ₄ •8(H ₂ O)] - in 14ml engraved vial	17.21g	center, to left of reagent jar
5	B	Boron	Tamiya Cera-Grease Boron Nitride Compound	10g	across center of cell, right hand side
5	B	Boron	Rimmel London "Mayfair Red Lady" Lipstick [can contain boron nitride [BN]]	1	back right hand corner
5	B	Boron	Sterilin urine sample container with boric acid preservative	1	back left hand corner
5	B	Boron	TiBor Grain Refiner [94% aluminum, 5% titanium, 1% boron] - used to add small quantities of titanium and boron to aluminum alloys	22.56g	front center
5	B	Boron	Mineral: Colemanite [Ca ₂ B ₆ O ₁₁ •5(H ₂ O)] - Boron, California, United States	1	center, against left hand wall
5	B	Boron	Mineral: Ulexite [NaCaB ₅ O ₆ (OH) ₆ •5(H ₂ O)] - Boron, California, United States	1	front left hand corner
5	B	Boron	Backdrop: Enlargement of 1950's borax packet	-	back wall
6	C	Carbon	Graphite, in 50ml reagent jar	48.32g	center, back wall
6	C	Carbon	Amorphous carbon granules, in 7ml engraved vial	4.5641g	center, against left hand wall
6	C	Carbon	Diamond - 45 mesh industrial diamond powder, in 7ml engraved vial	1.7886g	center, to right of fullerenes, in front of graphite
6	C	Carbon	Glassy carbon	18.79g	front center, between carbon film resistors and amber
6	C	Carbon	Multi-walled carbon nanotubes, in 7ml engraved vial [>85% = 10-30nm diameter, 5-20 micron length]	0.1419g	center, between amorphous granules and diamond powder
6	C	Carbon	Crude oil in 30ml reagent jar	30ml	back right hand corner
6	C	Carbon	Anthracite coal - Virginia, United States	1 piece	center, against right hand wall
6	C	Carbon	Carbon resistors	10 pieces	front center, between pencil and glassy carbon
6	C	Carbon	Ikea Pencil	1 piece	diagonally across center

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6	C	Carbon	Koh-I-Noor Artists Graphite Stick [4B]	1 piece	diagonally across center
6	C	Carbon	Baltic amber	4.3268g	front right hand corner
6	C	Carbon	Backdrop: Carbon Fibre	-	back wall
7	N	Nitrogen	Nitrogen gas in 60mm quartz sphere, on ring stand	~110ml	center
7	N	Nitrogen	Whipped cream charger containing 8 grams of nitrous oxide [N ₂ O]	8g	front, right of center
7	N	Nitrogen	Eucerin Lotion [10% Urea]	30ml	back right hand corner
7	N	Nitrogen	Domino tile	1 piece	center, against left hand wall
7	N	Nitrogen	Black & white urea checkers (1 of each)	2 pieces	center, against left hand wall
7	N	Nitrogen	Urea [CH ₄ N ₂ O] in 14ml engraved vial	14.15g	back right hand corner, in front of Eucerin
7	N	Nitrogen	Force Industries Div. Sal-Ammoniac soldering block block	½lb	back left hand corner
7	N	Nitrogen	3 x Ammonia Inhalent Capsules, 0.3ml each	3 pieces	front right hand corner
7	N	Nitrogen	Backdrop: Photograph of nitrogen snow	-	back wall
8	O	Oxygen	Oxygen gas in 60mm quartz sphere, on ring stand	~110ml	center
8	O	Oxygen	Car air freshener	1 piece	center, against left hand wall
8	O	Oxygen	Finger Pulse oximeter	1 piece	center, against right hand wall
8	O	Oxygen	Oxygen regulator	1 piece	back right hand corner
8	O	Oxygen	Backdrop: Pressed leaves in acrylic photo frame	-	back wall
9	F	Fluorine	33% fluorine diluted in helium, in quartz ampoule, embedded in 100mm x 100mm x 30mm acrylic block	1ml	back wall
9	F	Fluorine	Teflon rod	1 piece	back right hand corner
9	F	Fluorine	Plumb Sure PTFE Thread Seal Tape	1 reel	center, against right hand wall
9	F	Fluorine	Calcium fluoride [CaF ₂] in 7ml engraved vial	19.97g	center, against left hand wall
9	F	Fluorine	Colgate Advanced Clean fluoride toothpaste, 25ml	25ml	back left hand corner
9	F	Fluorine	Mineral: Fluorite [CaF ₂] - Hilton Mine, Scoredale, Cumbria, England	1 piece	center, in front of F ₂ acrylic block
9	F	Fluorine	Mineral: Fluorite [CaF ₂] - octahedra, 5 pieces locality not known	5 pieces	front center
10	Ne	Neon	Neon discharge tube in shape of element symbol	1 piece	center
11	Na	Sodium	Sodium metal under vacuum, ampouled, embedded in 14ml engraved vial	2.09g	center, in front of sodium vapor bulb, to left of sodalite
11	Na	Sodium	Mineral: Sodalite [Na ₄ Al ₃ Si ₃ O ₁₂ Cl ₂] - Brazil	1 piece	center, against right hand wall
11	Na	Sodium	Mineral: Halite [NaCl] - Poland, on watch glass	1 piece	front, left of center
11	Na	Sodium	Sodium chloride [NaCl] in 7ml engraved vial	12.17g	center, against right hand wall [in front of sodalite]
11	Na	Sodium	Sodium hydroxide [NaOH] in 7ml engraved vial	10.35g	front left hand corner
11	Na	Sodium	Table Salt & Shaker [NaCl]	1 piece	back left hand corner
11	Na	Sodium	Venture Lighting 70W SONT High Pressure Sodium Vapour Bulb [HPST.70W/E27/HO]	1 piece	diagonally across back of cell
12	Mg	Magnesium	Distilled crystals of magnesium metal under argon, sealed in quartz dome	43.38g	center
12	Mg	Magnesium	Magnesium ribbon	1.4644g	back right hand corner
12	Mg	Magnesium	Magnesium oxide, in engraved 14ml vial	17.92g	center, against left hand wall
12	Mg	Magnesium	Fire Starter	1 piece	back right hand corner, in front of magnesium ribbon
12	Mg	Magnesium	Mineral: Olivine [Mg ₂ SiO ₄] - Lanzarote, Canary Islands, Spain	1 piece	front right hand corner
12	Mg	Magnesium	Mineral: Peridot [Mg ₂ SiO ₄] on watch glass - locality not known	11.3492g	front center
12	Mg	Magnesium	Mineral: Dolomite [CaMg(CO ₃) ₂] on Quartz [SiO ₂] - Lockport Quarry, Lockport, New York, United States	1 piece	front left hand corner
12	Mg	Magnesium	Milk of Magnesia bottle, blue glass [empty]	1 piece	back left hand corner
12	Mg	Magnesium	Backdrop: Milk of Magnesia label	-	back wall
13	Al	Aluminum	aluminum pellets, in 50ml reagent jar	66.01g	center, against back wall
13	Al	Aluminum	aluminum ingot	88.02g	back left, in front of deodorant can
13	Al	Aluminum	Nivea for Men Cool Kick deodorant - contains aluminum chlorohydrate [Al ₂ Cl(OH) ₅] (evacuated can)	1 piece	back left hand corner
13	Al	Aluminum	Mineral: Topaz, clear [Al ₂ SiO ₄ (F, OH) ₂] - locality not known	14.2480g	center, against right hand wall
13	Al	Aluminum	Mineral: Bauxite - mixture of iron and aluminum hydroxides/oxides, principal aluminum ore - Villeveyrac, Montpellier, France	1 piece	back right hand corner
13	Al	Aluminum	Mineral: Garnets, on watch glass	15.15g	front right hand corner
13	Al	Aluminum	Faceted rubies - laboratory grown red corundum [Al ₂ O ₃], round cut, 3½mm x 9 + 5½mm x 5, on watch glass	1.1674g	center, behind coins
13	Al	Aluminum	Faceted sapphires - laboratory grown blue corundum [Al ₂ O ₃], baguette cut, 2½mm x 5mm x 9, on watch glass	0.4140g	center, behind coins

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13	Al	Aluminum	Coins: Austria 1955 10 Groschen, Czech Republic 2005 50 Haleru [x 2], East Germany 1977 1 Pfennig, Italy 1952 10 Lire, 1953 5 Lire, Moldova 2004 1 Ban [x 2], 2008 5 Bani, 2010 10 Bani, Slovenia 1992 10 Stotinov, 1992 20 Stotinov, Transnistria 2000 1 Kopeek [x 2], 2000 10 Kopeek [x 2], Turkey 1982 5 Lira	17 pieces	across front of cell from center to right hand wall
13	Al	Aluminum	Aluminum oxide [Al ₂ O ₃] in engraved 7ml vial	11.82g	center, in front of reagent jar, to left of bauxite
13	Al	Aluminum	Backdrop: Aluminum New Orleans Mardi Gras tokens mounted on cobbled aluminum sheet [Krewe of Jupiter / Triumph of Arts & Sciences (undated), The Cabildo 1795 / New Orleans Mardi Gras (undated), Krewe of Thoth 1998 / Strike Up The Band, Bacchus 1968 / Games People Play (gold color), Atlas 1969 / Lets Mask for Mardi Gras 1974 (orange gold)]	5 pieces	back wall
14	Si	Silicon	Pieces of silicon, in 50ml reagent jar	55.80g	center
14	Si	Silicon	Loose lump of silicon, with surface crystallization	30.44g	center right, in front of silicon carbide, to front left of chocolate mold
14	Si	Silicon	Silicon carbide crystals - [SiC], in 7ml engraved vial	11.11g	back right, behind loose lump of silicon
14	Si	Silicon	Aerogel granules [SiO ₂] in 7ml engraved vial	0.672g	front left wall, to left of quartz crystals, behind silica gel packets
14	Si	Silicon	Venus flower basket (Euplectella aspergillum), also referred to as glass sponges (body is composed entirely of silica, SiO ₂)	1 piece	diagonally across back wall
14	Si	Silicon	Mineral: Quartz crystals [SiO ₂] - Mundo Nuevo Mine, Peru	1 piece	center, against left hand wall
14	Si	Silicon	Silicone chocolate mold	1 piece	center, against right hand wall
14	Si	Silicon	Kingston Technology KTC-EN133/512 512MB memory module	1 piece	back left hand corner, against back wall
14	Si	Silicon	Silicon chips, on watch glass	27 pieces	front center
14	Si	Silicon	Cleanpak Silica Gel packet	3 pieces	front left hand corner
14	Si	Silicon	Backdrop: 6" Silicon etched test wafer	1 piece	back wall
15	P	Phosphorus	Amorphous red phosphorus powder, ampouled	3.70g	center, right
15	P	Phosphorus	Solid amorphous phosphorus, ampouled, embedded in 14ml engraved vial	1.50g	center, left
15	P	Phosphorus	ZDDP Maxx Engine Oil Additive [extreme pressure additive zinc dialkyldithiophosphate for use in engines prior to 1990]	113.40g	back left hand corner
15	P	Phosphorus	Mineral: Apatite [Ca ₅ (PO ₄) ₃ F] - Minas Gerais, Brazil	1 piece	front center
15	P	Phosphorus	Red fox vertebrae [Vulpes vulpes]	3 pieces	front left hand corner
15	P	Phosphorus	Coghlan's Waterproof Matches	1 box	back right
15	P	Phosphorus	Coghlan's Storm Matches	1 tub	center right
15	P	Phosphorus	Backdrop: Photograph of white phosphorus crystals	-	back wall
16	S	Sulfur	Sulfur, melted droplets, in 50ml reagent jar	53.94g	back left hand corner
16	S	Sulfur	Flowers of sulfur in 7ml engraved vial	9.05g	center
16	S	Sulfur	Mineral: Native sulfur - [S] - El Desierto Mine, Potosi, Bolivia	1 piece	back right hand corner
16	S	Sulfur	Mineral: Pyrites - [FeS ₂] - Peru	1 piece	front left hand corner
16	S	Sulfur	Mineral: Selenite - variety of gypsum [CaSO ₄ •2(H ₂ O)] - Morocco	3 pieces	front center to front right hand corner
17	Cl	Chlorine	Chlorine gas in 60mm quartz sphere	~110ml	center
17	Cl	Chlorine	Mineral: Halite [NaCl] - Poland, on watch glass	1 piece	front right
17	Cl	Chlorine	Sodium chloride [NaCl] in 7ml engraved vial	12.18g	center right, behind halite on watch glass
17	Cl	Chlorine	Aquatabs water purifying tablets - contain 17mg sodium dichloroisocyanurate per tablet [C ₃ Cl ₂ N ₃ NaO ₃]	10 pieces	center left
17	Cl	Chlorine	PVC pipework	-	across back wall
17	Cl	Chlorine	Backdrop: Photograph of chlorine crystals	-	back wall
18	Ar	Argon	Argon discharge tube in shape of element symbol		center
19	K	Potassium	Potassium metal under vacuum, ampouled, embedded in 14ml engraved vial	2.16g	center
19	K	Potassium	Morton Salt Substitute [KCl] - 3/4oz pot	88.60g	back left hand corner
19	K	Potassium	Potassium chloride [KCl] in 7ml engraved vial	11.26g	center, against left hand wall
19	K	Potassium	Mineral: Alum-(K) (formerly Potassium Alum) [KAl(SO ₄) ₂ •12(H ₂ O)] - Esmeralda, Silver Peak, Nevada, United States, on watch glass	1 piece	center, against right hand wall
19	K	Potassium	Mineral: Sylvite [KCl] with Halite [NaCl] - Marie Louise Mine, Staffelfelden, France, on watch glass	1 piece	front center
20	Ca	Calcium	Distilled crystals of calcium metal under argon, sealed in 50ml reagent jar	20g	back center
20	Ca	Calcium	Muskkrat skull	1 piece	back left hand corner, in front of pink chalk stick
20	Ca	Calcium	Snakeshead cowrie shells [Cypraea caputserpentis]	3 pieces	front center
20	Ca	Calcium	Farmed mushroom coral	1 piece	center, between calcium crystals and cowrie shells

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20	Ca	Calcium	Mineral: Calcite [CaCO ₃] var. Iceland Spar [Optical Calcite] - locality not known	1 piece	front left hand corner
20	Ca	Calcium	Mineral: Chalk [CaCO ₃] - Surrey, United Kingdom	1 piece	front right, against right hand wall
20	Ca	Calcium	Giant chalk stick, pink	1 piece	back left hand corner
20	Ca	Calcium	Calcium oxide [CaO] in 7ml engraved vial	6.57g	back right, behind lump of chalk
20	Ca	Calcium	Calcium chloride [CaCl ₂ ·2H ₂ O] in 14ml engraved vial	18.05g	back right, between calcium crystals and calcium oxide
20	Ca	Calcium	Calcium fluoride [CaF ₂] in 7ml engraved vial	21.01g	center, against left hand wall
21	Sc	Scandium	Distilled scandium metal crystals under argon, ampouled	8.11g	center
21	Sc	Scandium	Arc-melted scandium pellets, on watch glass	3.36g	center right
21	Sc	Scandium	3 Pieces of scandium foil, on watch glass	0.50g	front center
21	Sc	Scandium	Control Tech Newton 38SC Bike Stem [scandium reinforced AL7075 ally]	1 piece	across back wall
22	Ti	Titanium	Titanium metal sponge, in 50ml reagent jar	52.85g	back center
22	Ti	Titanium	Titanium crystal bar end	332.8086g	back left hand corner
22	Ti	Titanium	Ferro Titanium pieces	11.76g	center, against left hand wall
22	Ti	Titanium	Winsor & Newton titanium white oil paint - contains titanium dioxide [TiO ₂] (and zinc oxide [ZnO])	37ml	back right hand corner
22	Ti	Titanium	Anodised rings with hematite beads [grey, multicolored, purple, teal + yellow], on watch glass	5 pieces	front, center to right
22	Ti	Titanium	Titanium dioxide [TiO ₂] in 14ml engraved vial	20.71g	center, against right hand wall
22	Ti	Titanium	Backdrop: Titanium sheet	-	back wall
23	V	Vanadium	Vanadium metal crystals under argon, ampouled	20.68g	center
23	V	Vanadium	Ferro-vanadium - [Fe-V] - [analysis: V - 82%, Fe - 17.027%, Mn - 0.30%, Al - 0.25%, C - 0.21%, Si - 0.10%, Cu - 0.07%, P - 0.02%, S - 0.013%, As - 0.01%]	30.86g	front right, in front of vanadinite
23	V	Vanadium	Chrome vanadium sockets [chrome plated] - 10mm, 11mm & 15mm	3 pieces	center to back left
23	V	Vanadium	Chrome vanadium spanners	2 pieces	diagonally across cell
23	V	Vanadium	Mineral: Vanadinite [Pb ₅ (VO ₄) ₃ Cl] - Mibladen, Morocco	1 piece	center, against right hand wall
23	V	Vanadium	Vanadium pentoxide [V ₂ O ₅] in engraved 7ml vial	10.62g	back center, to right of vanadium crystals
24	Cr	Chromium	Aluminothermic chromium metal lumps, in 50ml reagent jar	163.88g	back, right of center
24	Cr	Chromium	Aluminothermic chromium metal lump, loose	140.75g	center, in front of reagent jar
24	Cr	Chromium	Electrolytic chromium metal crystals	14.43g	front left hand corner
24	Cr	Chromium	Chromium plated spoon	1 piece	diagonally across cell
24	Cr	Chromium	Goldstar Chrome-X CRX90 audio tape	1 piece	back left hand corner
24	Cr	Chromium	Coins: Canada 1944 5 Cents [x 2], 1945 5 Cents [chromium plated], Italy 1955 50 Lire, 1957 100 Lire, 1981 50 Lire [chrome steel]	6 pieces	front right hand corner
24	Cr	Chromium	Green chromium oxide [Cr ₂ O ₃] in 14ml engraved vial	37.58g	center, against left hand wall
24	Cr	Chromium	Chromium sulfate [Cr ₂ (SO ₄) ₃] in 14ml engraved vial	17.96g	back center, between chromium oxide and lump of chromium metal
24	Cr	Chromium	Mineral: Chromite [Fe++Cr ₂ O ₄] - Bushveld Igneous Complex, South Africa	1 piece	back right hand corner
24	Cr	Chromium	Backdrop: Chrome foil		back wall
25	Mn	Manganese	Manganese metal lumps, in 50ml reagent jar	184.98g	back center
25	Mn	Manganese	Manganese flake on watch glass	20.78g	center, in front of manganese dioxide, behind valve guide
25	Mn	Manganese	Manganese bronze valve guide for Classic Mini	1 piece	front center
25	Mn	Manganese	Coins: United States 1944P 5 Cents, 1944S 5 Centes, 1945D 5 Cents [wartime alloy], \$1 - 2008 John Quincy Adams, 2009 James K. Polk + 2010 Millard Fillmore [manganese bronze]	6 pieces	center to right hand corner
25	Mn	Manganese	Mineral: Manganese nodule, on watch glass - 6000 metres depth, Marquesas area, Pacific Ocean	1 piece	front left hand corner
25	Mn	Manganese	Manganese chloride in 14ml engraved vial	16.67g	back center, against left hand wall
25	Mn	Manganese	Manganese dioxide [MnO ₂] in 14ml engraved vial	20.59g	back center, between manganese chloride and reagent jar
25	Mn	Manganese	Mineral: Pyrolusite [MnO ₂] - Minnesota, United States	1 piece	back right hand corner
25	Mn	Manganese	Manganese steel cut throat razor	1 piece	across back wall
26	Fe	Iron	Electrolytic iron metal plate in 50ml reagent jar	201.82g	back right hand corner
26	Fe	Iron	Iron (II, III) oxide [Fe ₃ O ₄] in 7ml engraved vial	16.15g	front left hand corner
26	Fe	Iron	Iron (III) oxide [Fe ₂ O ₃] in 7ml engraved vial	16.02g	front left, to right of iron (II, III) oxide
26	Fe	Iron	Iron sulfate [FeSO ₄] in 7ml engraved vial	8.81g	center, against right hand wall
26	Fe	Iron	Horseshoe	1 piece	against back wall
26	Fe	Iron	Horseshoe magnet	1 piece	back left hand corner, standing in Lodge pan
26	Fe	Iron	Coins: Ukraine 2009 1 Kopeck [x 5]	5 pieces	front right hand corner

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26	Fe	Iron	Lodge miniature cast iron pan	1 piece	back left hand corner
26	Fe	Iron	Mineral: Hematite [Fe ₂ O ₃] - Marina, Isle D'Elba, Italy	1 piece	back center, standing in Lodge pan
26	Fe	Iron	Mineral: Magnetite crystals [Fe ⁺⁺ Fe ⁺⁺⁺ O ₄] on watch glass - Brazil	25.1416g	front center
26	Fe	Iron	Backdrop: Steel sheet		back wall
27	Co	Cobalt	Electrolytic cobalt metal anode buttons in 50ml jar	197.60g	back center
27	Co	Cobalt	Cobalt anode button, loose	46.43g	front left hand corner
27	Co	Cobalt	Cobalt briquette	39.68g	center, against right hand wall [between paint and cobalt chloride]
27	Co	Cobalt	Cobalt glass poison bottle, marked 'NOT TO BE TAKEN'	1 piece	back left hand corner
27	Co	Cobalt	Winsor & Newton Cobalt Blue oil paint - pigment based on CoAl ₂ O ₄	37ml	back right hand corner
27	Co	Cobalt	HSS Twist Drill cobalt steel drill bits - 4.8mm, 6.5mm & 9mm	3 pieces	center left, from back to front of cell
27	Co	Cobalt	Mineral: Skutterudite [(Co,Fe,Ni)As ₂ S ₃] - Bou Azzer, Morocco	1 piece	front center, between drill bits and cobalt chloride
27	Co	Cobalt	Cobalt (II) oxide [CoO] in 14ml engraved vial	21.53g	center, against left hand wall
27	Co	Cobalt	Cobalt chloride [CoCl ₂] in 7ml engraved vial	9.49g	center, against right hand wall
28	Ni	Nickel	Nickel metal balls, in 50ml reagent jar	210.40g	back center
28	Ni	Nickel	Nickel ingots	68.39g	front center, amongst coins
28	Ni	Nickel	Steel Making Briquette [Western Mining Corporation]	62.53g	back right hand corner
28	Ni	Nickel	Electroplating waste - 99% nickel crystals plated with chromium	15.6086g	center, in front of reagent jar
28	Ni	Nickel	Nickel (II) sulfate hexahydrate [NiSO ₄ ·6H ₂ O] in 14ml engraved vial	24.40g	back left hand corner
28	Ni	Nickel	Coins [pure nickel]: Canada 1969 25 Cents, 1973 25 Cents [x 3], 1974 25 Cents, 1984 25 Cents, France 1960 1 Franc, 1965 ½ Franc, 1965 1 Franc, 1969 1 Franc, 1971 5 Francs	11 pieces	right hand side, against right wall
28	Ni	Nickel	Coins [copper-nickel]: East Caribbean States 1989 \$1, United States 1936 5 Cents [x 2] [copper-nickel]	3 pieces	front left hand corner
28	Ni	Nickel	Mineral: Garnierite [(Ni,Mg) ₄ Si ₆ O ₁₅ (OH) ₂ ·6(H ₂ O)] - locality not known	1 piece	center left, in front of nickel sulfate
28	Ni	Nickel	Backdrop: Nickel sheet	-	back wall
29	Cu	Copper	Copper metal granules under argon, in 50ml reagent jar	262.29g	against back wall, right of center
29	Cu	Copper	Mineral: Malachite [Cu ₂ (CO ₃)(OH) ₂] - D.R. Congo	1 piece	back right hand corner
29	Cu	Copper	Mineral: Native copper nuggets [Cu] - Michigan, United States	34.1646g	front center
29	Cu	Copper	Mineral: Chalcopyrite (Peacock Ore) [CuFeS ₂] - locality not known	1 piece	center, behind copper nuggets
29	Cu	Copper	Copper (II) sulfate [CuSO ₄ ·5H ₂ O] in engraved 7ml vial	13.29g	against left hand wall, in front of copper carbonate and copper oxide
29	Cu	Copper	Copper (II) carbonate dihydroxide [CuCO ₃ ·Cu(OH) ₂] in engraved 14ml vial	24.43g	center, against left hand wall, in front of telephone cable
29	Cu	Copper	Copper (II) oxide [CuO] in engraved 7ml vial	15.17g	center, behind copper sulfate, in front of telephone cable
29	Cu	Copper	Section of 2,000 strand telephone trunk cable	1 piece	back left hand corner
29	Cu	Copper	Copper slate nails - 32mm x 3 + 40mm x 5	8 pieces	center, between peacock ore and malachite
29	Cu	Copper	Coins: Denmark 1950 2 Øre, France 1899 5 Centimes, South Arabia 1964 5 Fils, United Kingdom 1946 ½ Penny, 1967 ½ Penny [x 2], 1967 1 Penny, 1971 2 New Pence, United States 1905 1 Cent, 1937 1 Cent, 1947 1 Cent	11 pieces	across front of cell
29	Cu	Copper	Copper pipework	-	across back wall
29	Cu	Copper	Backdrop: Copper sheet	-	back wall
30	Zn	Zinc	Crystalline pieces of zinc metal under argon, in 50ml reagent jar	138.36g	center, against back wall
30	Zn	Zinc	Mineral: Sphalerite [ZnS] and Quartz [SiO ₂] - Tri-State District, Picher, Oklahoma, United States	1 piece	front center
30	Zn	Zinc	Fin from British Army mortar flare [pure zinc]	1 piece	back left hand corner
30	Zn	Zinc	Zinc Ointment tin [empty]	1 piece	center, against left hand wall
30	Zn	Zinc	Winsor & Newton Zinc White oil paint - contains zinc oxide [ZnO]	37ml	back right hand corner
30	Zn	Zinc	Zinc oxide [ZnO] in engraved 7ml vial	28.86g	center, diagonally between reagent jar and zinc chloride
30	Zn	Zinc	Zinc chloride [ZnCl ₂] in 7ml engraved vial	14.15g	center, against right hand wall
30	Zn	Zinc	Zinc galvanised masonry nails - 60mm x 2½mm	5 pieces	scattered across front of cell
30	Zn	Zinc	Zinc galvanised clout nails - 20mm x 3mm	5 pieces	scattered across front of cell
30	Zn	Zinc	Zinc plated screws - 40mm x 3½mm	5 pieces	scattered across front of cell
30	Zn	Zinc	Backdrop: Zinc galvanized steel sheet	-	back wall
31	Ga	Gallium	Cube of gallium metal, in petri dish	104.35g	center
31	Ga	Gallium	TC LED Spotlight 4w (GU10 fitting)	1 piece	back left hand corner
31	Ga	Gallium	Geratherm Mercury Free Clinical Thermometer - contains Galinstan, eutectic alloy of Ga, In and Sn	1 piece	against right hand wall
31	Ga	Gallium	Galinstan [GaInSn] in 7ml engraved vial	31.5423g	center, against left hand wall
32	Ge	Germanium	Germanium, circular lump	47.65g	center

WEST CHESTER UNIVERSITY PERIODIC TABLE DISPLAY

No:	Sym:	Element:	Sample:	Quantity:	Location:
32	Ge	Germanium	Germanium diodes, on watch glass	7 pieces	center, against right hand wall
32	Ge	Germanium	MP26B Germanium PNP transistors	6 pieces	center, against left hand wall
32	Ge	Germanium	Mineral: Sphalerite [ZnS] - Orchard Mine, Matlock, Derbyshire, United Kingdom	1 piece	back left hand corner
33	As	Arsenic	Metallic arsenic crystals under argon, ampouled, embedded in 14ml engraved vial	5g	center
33	As	Arsenic	Mineral: Arsenopyrite [FeAs] with Quartz [SiO ₂] - Yaogangxian Mine, Chenzhou Prefecture, Hunan Province, China	1 piece	center, against left hand wall
33	As	Arsenic	Ai301G Gallium arsenide tunnel diodes, on watch glass	5 pieces	center, against right hand wall
33	As	Arsenic	Backdrop: William Morris wallpaper - originally contained Paris Green pigment [Cu(C ₂ H ₃ O ₂) ₂ ·3Cu(AsO ₂) ₂]	-	back wall
34	Se	Selenium	Pieces of vitreous selenium, in 50ml reagent jar	103.99g	against back wall, right of center
34	Se	Selenium	Grey amorphous shot in 7ml engraved vial	23.93g	center
34	Se	Selenium	Selenium "pools" x 3 pieces	15.29g	front left hand corner
34	Se	Selenium	Large Solid State Selenium rectifier	1 piece	diagonally from center right hand wall to front center
34	Se	Selenium	Small Solid State Selenium rectifier	1 piece	front right hand corner
34	Se	Selenium	Leningrad 7 Light Meter	1 piece	back left hand corner
35	Br	Bromine	Liquid/gaseous bromine in glass sphere	15g	center
35	Br	Bromine	Envirograf® 3-2-1 Standard Fire Retardant Liquid containing ammonium bromide [NH ₄ Br]	30ml	back right hand corner
35	Br	Bromine	Piece of treated fabric - treated with fire retardant such as Firecheck or tetrabromobisphenol A	1 piece	against left hand wall
35	Br	Bromine	Backdrop: Photograph of bromine crystals	-	back wall
36	Kr	Krypton	Krypton discharge tube in shape of element symbol	-	center
37	Rb	Rubidium	Rubidium metal under vacuum, ampouled, embedded in 14ml engraved vial	2.48g	center
37	Rb	Rubidium	Rubidium chloride [RbCl] in 7ml engraved vial	12.00g	front left
37	Rb	Rubidium	Mineral: Lepidolite Mica [K(Li,Al) ₃ (Si,Al) ₄ O ₁₀ (F,OH) ₂], source of Rb as impurity - locality not known	1 piece	center right
38	Sr	Strontium	Distilled crystals of strontium metal under argon, sealed in 50ml reagent jar	33.40g	center
38	Sr	Strontium	Strontium modifier - [90% aluminum, 10% strontium]	20.86g	front, right of center [three pieces]
38	Sr	Strontium	Protelos sachet strontium ranelate granules [C ₁₂ H ₆ N ₂ O ₈ SSr ₂]	2g	back left hand corner
38	Sr	Strontium	Mineral: Celestite [SrSO ₄] - Madagascar	1 piece	center, against left hand wall
38	Sr	Strontium	Strontium oxide [SrO] in 14ml engraved vial	26.16g	center right, behind strontium nitrate
38	Sr	Strontium	Strontium nitrate [Sr(NO ₃) ₂] in 14ml engraved vial	35.47g	center, against right hand wall
38	Sr	Strontium	Sensodyne Classic toothpaste [contains strontium chloride hexahydrate, SrCl ₂ ·6H ₂ O]	50ml	back right hand corner
38	Sr	Strontium	Mineral: Strontianite [SrCO ₃] - Allt na Uanhn, Inchnadamph, Assynt, Scotland	1 piece	front left hand corner
39	Y	Yttrium	Yttrium metal lumps under argon, in 50ml reagent jar	95.40g	center
39	Y	Yttrium	Bosch Yttrium Plus sparkplug	1 piece	center right, in front of reagent jar
39	Y	Yttrium	Yttrium oxide (yttria) [Y ₂ O ₃] in 7ml engraved vial	11.07g	center, against left hand wall
39	Y	Yttrium	Yttrium aluminum garnets, clear, [Y ₃ Al ₅ O ₁₂] on watch glass - round cut, 3½mm x 6, 4mm x 1, 6mm x 1, 7mm x 1 + 7½mm x 1	1.3014g	front, left of center
39	Y	Yttrium	Mineral: Yttrian titanite [(Ca,Y)TiSiO ₅] - Rossas, Iveland, Aust Agder, Norway		?
40	Zr	Zirconium	Pieces of iodid zirconium metal crystal bar, in 50ml reagent jar	142.47g	center back
40	Zr	Zirconium	Zirconium crystal bar wires	14.75g	diagonally across cell
40	Zr	Zirconium	Zirconium sponge on watch glass	23.82g	front center
40	Zr	Zirconium	Copper zirconium alloy [48.92% Cu, 51.08% Zr], loose pieces	17.3675g	front right hand corner
40	Zr	Zirconium	Faceted cubic zirconia - [ZrO ₂] on watch glass - round cut, amethyst 9mm + 10mm, black 10mm, citrine 10mm, clear 7mm, 9mm + 10mm, garnet 9mm + 10mm, gold 7mm, lilac 10mm, olive 10mm, red 7mm + yellow 7mm + 10mm	14.5630g	center, left of center, behind copper zirconium alloy
40	Zr	Zirconium	Sylvania Blue Dot Flash Cube	1 piece	back left hand corner
40	Zr	Zirconium	Sylvania Blue Dot Flash Bulb (M2 - clear)	1 piece	back left hand corner
40	Zr	Zirconium	Sylvania Blue Dot Flash Bulb (M2B - blue)	1 piece	back left hand corner
40	Zr	Zirconium	Westinghouse Flash Bulb [M2B - blue]	1 piece	back left hand corner
40	Zr	Zirconium	Zirconium alloy tubing [used to manufacture nuclear fuel rods]	1 piece	center, against right hand wall
40	Zr	Zirconium	Zirconium (IV) oxide [ZrO ₂] in 14ml engraved vial	17.90g	back right hand corner
40	Zr	Zirconium	Backdrop: Abracs Zirconia Flap Disc - [ZrO ₂]	1 piece	back wall

WEST CHESTER UNIVERSITY PERIODIC TABLE DISPLAY

No:	Sym:	Element:	Sample:	Quantity:	Location:
41	Nb	Niobium	Pieces of niobium metal rod, in 50ml reagent jar	246.77g	center, against back wall
41	Nb	Niobium	Arc-melted niobium pellets, on watch glass	11.23g	center
41	Nb	Niobium	Ferro-niobium pieces [67.81% Nb]	35.77g	center, against left hand wall
41	Nb	Niobium	Nickel niobium pieces [69.12% Nb]	23.78g	front center, against right hand wall
41	Nb	Niobium	K53-4 Russia 33uF 15V Axial Niobium Capacitors	5 pieces	center to right wall, in front of reagent jar
41	Nb	Niobium	Niobium wire jewelry: 3 x Jump Rings (fuschia, green + purple), pair of ear wires (teal) + pin (blue)	5 pieces	center, between arc-melted pellets and copper zirconium alloy
41	Nb	Niobium	Niobium (II) oxide [NbO] in 14ml engraved vial	15.65g	back left hand corner
41	Nb	Niobium	Niobium (V) oxide [Nb ₂ O ₅] in 14ml engraved vial	21.63g	back center, between niobium (II) oxide and reagent jar
41	Nb	Niobium	Columbite-(Fe) [FeNb ₂ O ₆], [South Dakota, United States]	25.1918g	front left hand corner
41	Nb	Niobium	Backdrop: Niobium foil	-	back wall
42	Mo	Molybdenum	Molybdenum metal sputtering target foil, in 50ml reagent jar	15.44g	right of center, against back wall
42	Mo	Molybdenum	13mm x 13mm molybdenum cylinders [7 pieces]	129.4857g	front center, between molybdenite and impact sockets
42	Mo	Molybdenum	HPI Racing Z157 Molybdenum Grease	2g	back, left of center, in front of molybdenum trioxide
42	Mo	Molybdenum	Molybdenum alloy cruciate bone screw 1½"	1 piece	back left hand corner, in original packet
42	Mo	Molybdenum	Chrome-molybdenum impact sockets - 5mm, 7mm + 11mm	3 pieces	center, against right hand wall
42	Mo	Molybdenum	Molybdenum trioxide [MoO ₃] in 7ml engraved vial	19.70g	back center, right of molybdenum disulfide, behind pot of molybdenum grease
42	Mo	Molybdenum	Molybdenum disulfide [MoS ₂] in 7ml engraved vial	19.91g	center, against left hand wall
42	Mo	Molybdenum	Molybdenite [MoS ₂], Australia	3 pieces	front left hand corner
43	Tc	Technetium	Uranium mineral, ampouled and embedded in 14ml engraved vial	-	right of center
43	Tc	Technetium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	back center
43	Tc	Technetium	Backdrop: Technetium bone scan	-	back wall
44	Ru	Ruthenium	Arc melted ruthenium metal pellets, embedded in 100mm x 100mm x 30mm acrylic block	10.2385g	back center
44	Ru	Ruthenium	Ruthenium crystals, on watch glass	3.8839g	front center
44	Ru	Ruthenium	Ruthenium oxide resistors, 12cm strip	1 piece	diagonally across cell
44	Ru	Ruthenium	Ruthenium plated ring	1 piece	center right
45	Rh	Rhodium	Arc melted rhodium metal pellets, embedded in 100mm x 100mm x 30mm acrylic block	8.4006g	back center
45	Rh	Rhodium	50mm Enamel & crystal rhodium plated butterfly brooch	1	center right
45	Rh	Rhodium	Rhodium plated hair slides [pink & blue]	2	front center
45	Rh	Rhodium	Rhodium plated dental mirror		center
46	Pd	Palladium	Arc melted palladium metal pellets, embedded in 100mm x 100mm x 30mm acrylic block	10.3792g	back center
46	Pd	Palladium	Palladium metal leaf in 14ml engraved vial	2 leaves	center, against right hand wall
46	Pd	Palladium	Mineral: Palladium ore from Stillwater Mine, Montana, USA, on watch glass	1 piece	front center
47	Ag	Silver	Silver metal turnings, in 50ml reagent jar	17.9216g	back center
47	Ag	Silver	Silver crystals, in sealed ampoule	3.79g	front right hand corner
47	Ag	Silver	Silver granules, in sealed ampoule	20.22g	center right, to left of crystals
47	Ag	Silver	Silver metal leaf in 14ml engraved vial	2 leaves	center left, in front of deodorant
47	Ag	Silver	Silvered mirror, 34 x 24 x 5mm	1 piece	center, against left hand wall
47	Ag	Silver	Agfa 24 exposure ISO200 35mm film	1 piece	back right hand corner
47	Ag	Silver	Coins: United States 1914 10¢, 1941 10¢, 1961 ½¢, 1964 10¢ + 1964 ½¢	5 pieces	front left hand corner to center
47	Ag	Silver	Dove Men+Care Silver control deodorant - contains silver citrate [C ₆ H ₅ Ag ₃ O ₇] (evacuated can)	1 piece	back left hand corner
48	Cd	Cadmium	Cadmium metal pieces under argon, in 50ml reagent jar	185g	center
48	Cd	Cadmium	Winsor & Newton Cadmium Medium Yellow oil paint - contains cadmium zinc sulfide [CdS and ZnS]	1 piece	back right hand corner
48	Cd	Cadmium	Radio Shack cadmium sulfide photocells	5 pieces	front right hand corner
48	Cd	Cadmium	RCA 4423 cadmium sulfide photocell [manufactured 1960 - 1966]	1 piece	back left hand corner
49	In	Indium	Hammered indium metal sheet, in 14ml engraved vial	12.30g	back center
49	In	Indium	Indium metal cube, stuck with Swiss Army knife to show softness	124.62g	center
49	In	Indium	ITO coated glass, 50 x 40 x 1mm	1 piece	back left hand corner
49	In	Indium	Indium Corporation of America - Indium wire [99.99% In]	8.8455g	front right hand corner
49	In	Indium	Indium Corporation of America - Indalloy No. 5 Washers, on watch glass	9 pieces	front left hand corner
49	In	Indium	Sony Ericsson Cyber Shot cellphone	1 piece	back left hand corner

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No:	Sym:	Element:	Sample:	Quantity:	Location:
49	In	Indium	Backdrop: Copper indium diselenide (CIS) solar cells x 4	4 pieces	back wall
50	Sn	Tin	Pieces of white tin metal (β -Sn), in 50ml reagent jar	192.12g	center, against back wall
50	Sn	Tin	Melted pools of white tin (β -Sn)	78.85g	across front of cube
50	Sn	Tin	Mineral: Cassiterite [SnO ₂] - Pingwu Beryl Mine, Mount Xuebaoding, Sichuan Province, China	1 piece	center, against left hand wall
50	Sn	Tin	Tin oxide [SnO] in 14ml engraved vial	52.09g	back right hand corner
50	Sn	Tin	Tin dioxide [SnO ₂] in 7ml engraved vial	14.47g	center, against right hand wall
50	Sn	Tin	Cast tin soldiers	6 pieces	back left hand corner
50	Sn	Tin - Grey	Grey tin (α -Sn) powder and pieces, in 7ml engraved vial	20.8950g	right of center, in front of reagent jar
50	Sn	Tin	Backdrop: Tin foil	-	back wall
51	Sb	Antimony	Antimony metal lumps in 50ml reagent jar	146.47g	back center
51	Sb	Antimony	Distilled antimony crystals on watch glass	36.8297g	front center
51	Sb	Antimony	Antimony oxide [Sb ₂ O ₃] in 14ml engraved vial	40.88g	back right hand corner
51	Sb	Antimony	Antimony pentasulfide [Sb ₂ S ₅] in 17ml engraved vial	2.82g	front right hand corner
51	Sb	Antimony	Antimony trisulfide [Sb ₂ S ₃] in 7ml engraved vial	22.48g	center right, in front of trioxide, behind pentasulfide
51	Sb	Antimony	Mineral: Stibnite [Sb ₂ S ₃] - Romania	1 piece	center, against left hand wall
51	Sb	Antimony	Pewter pepper pot (My Lady English Hand Hammered Pewter)	1 piece	back left hand corner
51	Sb	Antimony	Backdrop: Pewter Plate [My Lady English Hand Hammered Pewter]	1 piece	back wall
52	Te	Tellurium	Tellurium lumps, ampouled	30.13g	center
52	Te	Tellurium	Tellurium dioxide [TeO ₂] in 7ml engraved vial	22.36g	center right
52	Te	Tellurium	Copper telluride [CuTe] in 7ml engraved vial	14.37g	back left hand corner
52	Te	Tellurium	Peltier cooling plate - contains bismuth telluride [Bi ₂ Te ₃]	1 piece	front, left of center
52	Te	Tellurium	Backdrop: BluRay Disc	-	back wall
53	I	Iodine	Iodine crystals deposited in vacuum, in 60mm glass sphere	10g	center
53	I	Iodine	Iodine prills, in sealed ampoule	10g	front right
53	I	Iodine	Tincture of iodine bottle, 1 fl. Oz [empty], Crescent Drug Products	1 piece	back left hand corner
53	I	Iodine	Backdrop: Photograph of iodine vapor	-	back wall
54	Xe	Xenon	Xenon discharge tube in shape of element symbol		center
55	Cs	Cesium	Cesium metal under vacuum, ampouled, embedded in 14ml engraved vial	2.91g	center
55	Cs	Cesium	Cesium chloride [CsCl] in 7ml engraved vial	17.10g	front left
55	Cs	Cesium	Mineral: Pollucite [(Cs,Na) ₂ Al ₂ Si ₄ O ₁₂ •(H ₂ O)] - Tanco Mine, Bernic Lake, Manitoba, Canada	1 piece	front right
56	Ba	Barium	Distilled crystals of barium metal under argon, sealed in quartz dome	16.05g	left of center
56	Ba	Barium	Mineral: Barite [BaSO ₄] - Teresito Mine, El Llano del Beal, Cartagena, Spain	1 piece	back left hand corner
56	Ba	Barium	3 x Electronic valves - contains barium getter coated on inner surface. Large valve manufactured by Brimar, smaller valves manufactured by Mullard.	3 pieces	front, center to right hand corner
56	Ba	Barium	Barium sulfate [BaSO ₄] in 14ml engraved vial	28.02g	back center, between crystal dome and carbonate
56	Ba	Barium	Barium carbonate [BaCO ₃] in 14ml engraved vial	51.94g	back right hand corner
56	Ba	Barium	Barium meal X-Ray backdrop	-	back wall
57	La	Lanthanum	Lanthanum metal lumps under argon, ampouled	26.50g	center
57	La	Lanthanum	Lanthanum oxide [La ₂ O ₃] in 7ml engraved vial	15.05g	center right
57	La	Lanthanum	Pieces of lanthanum metal oxidising on watchglass	1.12g	back left hand corner
57	La	Lanthanum	Mineral: Davitite [(La,Ce,Ca)(Y,U)(Ti,Fe ³⁺) ₂ O ₃ 8] - Eretveit, Evje-Iveland, Norway	1 piece	front center
57	La	Lanthanum	Lanthanated tungsten electrodes, 1.6mm + 2.4mm gold tip [1.5% La] + 1.6mm blue tip [2% La]	1 piece	diagonally across cell
58	Ce	Cerium	Cerium metal lumps under argon, ampouled	25.53g	center
58	Ce	Cerium	Cerium oxide [CeO ₂] in engraved 7ml vial	24.58g	center, right of center
58	Ce	Cerium	Pieces of cerium metal oxidising on watchglass	1.05g	back left hand corner
58	Ce	Cerium	Clipper lighter	1 piece	back right hand corner
58	Ce	Cerium	Lighter Flints - contains ferrocium	1 pack	front right
58	Ce	Cerium	Ceriated tungsten electrodes, 2 x 1mm + 1 x 1.6mm [2% Ce]	3 pieces	diagonally across cell
58	Ce	Cerium	Mineral: Cerite [Ce ⁺⁺⁺ 9Fe ⁺⁺⁺ (SiO ₃) ₆ (SiO ₃)(OH)](OH) ₃ - Bastnas, Riddarhyttan, Sweden	1 piece	front left
59	Pr	Praseodymium	Praseodymium metal lumps under argon, ampouled	26.51g	center
59	Pr	Praseodymium	Pieces of praseodymium metal oxidising on watchglass	1.03g	center, against right hand wall

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No:	Sym:	Element:	Sample:	Quantity:	Location:
59	Pr	Praseodymium	Praseodymium doped peridot cubic zirconia - round cut, 3¼mm x 14, 5¼mm x 6 & 7½mm x 3, on watch glass	3.8782g	front left hand corner
59	Pr	Praseodymium	Phillips Safety Products Didymium glassblowers safety glasses	1 pair	across back of cell
60	Nd	Neodymium	Neodymium metal lumps under argon, ampouled	27.16g	center
60	Nd	Neodymium	Pieces of neodymium metal oxidising on watchglass	1.07g	center back, to right of center
60	Nd	Neodymium	Neodymium magnets, 3mm spheres [216 x gold, 215 x blue]	431 pieces	center, front left of ampoule
60	Nd	Neodymium	Neodymium oxide [Nd ₂ O ₃] in 7ml engraved vial	15.27g	front right hand corner
60	Nd	Neodymium	Generic white ear buds	1 pair	against left hand wall
61	Pm	Promethium	Glass ring cell painted with radioluminescent paint containing trace of Pm-147, ampouled, embedded in 14ml engraved vial	1 piece	right of center
61	Pm	Promethium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	back center
62	Sm	Samarium	Samarium metal lumps under argon, ampouled	24.17g	center
62	Sm	Samarium	Pieces of samarium metal oxidising on watchglass	2.19g	center left
63	Eu	Europium	Distilled crystals of europium metal under argon, ampouled	9.07g	center
63	Eu	Europium	Pieces of europium metal oxidising on watchglass	1.08g	back right hand corner
63	Eu	Europium	Phillips 8 watt low energy light bulb - contains europium doped phosphors	1 piece	back left hand corner
63	Eu	Europium	Europium oxide [Eu ₂ O ₃] in 7ml vial	18.74g	front right
63	Eu	Europium	Europium doped phosphorescent paint in 7ml vial	12.8660g	front left
64	Gd	Gadolinium	Gadolinium metal lumps under argon, ampouled	35.15g	center
64	Gd	Gadolinium	Piece of gadolinium metal on 50 x 18 x 10mm ferrite magnet	5.41g	front right
64	Gd	Gadolinium	Gadolinium oxide [Gd ₂ O ₃] in 7ml engraved vial	18.39g	front left
65	Tb	Terbium	Terbium metal lumps under argon, ampouled	26.55g	center
65	Tb	Terbium	Loose pieces of terbium metal on watch glass	4.17g	front right
65	Tb	Terbium	SoundBug (speaker, contains terfenol, magnetorestrictive alloy, [-DTbxDy1-xFe2])	1 piece	across back of cell
66	Dy	Dysprosium	Dysprosium metal lumps under argon, ampouled	35.73g	center
66	Dy	Dysprosium	Loose pieces of dysprosium metal on watch glass	5.25g	left of center
66	Dy	Dysprosium	Seagate 4092 CYL 2111 MB Hard Drive	1 piece	across back of cell
67	Ho	Holmium	Holmium metal lumps under argon, ampouled	36.95g	center
67	Ho	Holmium	Loose pieces of holmium metal on watch glass	5.22g	front right
67	Ho	Holmium	Holmium oxide [Ho ₂ O ₃] in 7ml engraved vial	20.05g	front left
68	Er	Erbium	Erbium metal lumps under argon, ampouled	35.67g	center
68	Er	Erbium	Loose pieces of erbium metal on watch glass	5.29g	front center
68	Er	Erbium	Erbium doped pink cubic zirconia - round cut, 5¼mm x 5, 6½mm x 12 & 7½mm x 3, on watch glass	7.5825g	center right
68	Er	Erbium	Erbium oxide [Er ₂ O ₃] in 7ml engraved vial	27.93g	center left
69	Tm	Thulium	Thulium metal lumps under argon, ampouled	15.16g	center
69	Tm	Thulium	Thulium crystals, ampouled under argon in 7ml engraved vial	4.09g	front right
69	Tm	Thulium	Loose pieces of thulium metal on watch glass	5.01g	front left
69	Tm	Thulium	Backdrop: Five Euro banknote [fibers embedded in the paper fluoresce under ultraviolet light: blue for thulium, red for europium and green for terbium]	1 piece	back wall
70	Yb	Ytterbium	Cut ytterbium metal rod under argon, ampouled	35.06g	center
70	Yb	Ytterbium	Loose pieces of ytterbium metal on watch glass	5.13g	front left
70	Yb	Ytterbium	Ytterbium crystals, ampouled under argon in 7ml engraved vial	2.56g	front right
71	Lu	Lutetium	Lutetium metal lumps under argon, ampouled	15.65g	center
71	Lu	Lutetium	Piece of lutetium metal with 50 x 18 x 10mm ferrite magnet	4.56g	front right
72	Hf	Hafnium	Hafnium metal turnings, in 14ml engraved vial	34.43g	back center
72	Hf	Hafnium	Piece of hafnium crystal bar	79.32g	center right
72	Hf	Hafnium	Hafnium tipped electrodes, 2 short, 3 long electrodes	5 pieces	center front
72	Hf	Hafnium	Mineral: Zircons [ZrSiO ₄] - Mud Tanks, Northern Territory, Australia, on watch glass	13.9576g	center left
73	Ta	Tantalum	Tantalum metal foil, in 50ml reagent jar	2.29g	back center
73	Ta	Tantalum	Arc-melted tantalum pellets, on watch glass	16.42g	front center
73	Ta	Tantalum	Assorted capacitors, on watch glass	130 pieces	center, against right hand wall
73	Ta	Tantalum	Weck Hemoclip Large tantalum ligating clip, Ref. 523170, on watch glass	4 pieces	front right

WEST CHESTER UNIVERSITY PERIODIC TABLE DISPLAY

No:	Sym:	Element:	Sample:	Quantity:	Location:
73	Ta	Tantalum	Tantalum pentoxide [Ta ₂ O ₅] in 7ml engraved vial	21.06g	back left
73	Ta	Tantalum	Mineral: Tantalite [locality not known]	1 piece	front left
73	Ta	Tantalum	Backdrop: Tantalum foil	-	back wall
74	W	Tungsten	Tungsten metal cylinder	1,028.90g	back, left of center
74	W	Tungsten	Sintered tungsten pieces in 14ml engraved vial	130.64g	back right hand corner, to left of tungsten carbide
74	W	Tungsten	Arc-melted tungsten shot, on watch glass	21.60g	front, center right
74	W	Tungsten	Incandescent lightbulbs (with tungsten filaments)	3 pieces	back left hand corner
74	W	Tungsten	Tungsten trioxide [WO ₃] in 7ml engraved vial	13.78g	back right hand corner, in front of sintered tungsten
74	W	Tungsten	Tungsten carbide [WC] in 14ml engraved vial	61.68g	back right hand corner
74	W	Tungsten	Ammonium paratungstate [(NH ₄) ₁₀ (W ₁₂ O ₄₁)·5H ₂ O] in 7ml engraved vial	24.48g	back right hand corner, in front of tungsten carbide
74	W	Tungsten	Mineral: Scheelite [CaWO ₄] with Quartz [SiO ₂] - Pingwu Beryl Mine, Mount Xuebaoding, Sichuan Province, China	1	front left hand corner
74	W	Tungsten	Mineral: Wolframite [(Fe,Mn)WO ₄] - locality not known	1	center, in front of tungsten cylinder
74	W	Tungsten	Anode from xenon arc lamp	280.5278g	front, against right hand wall
74	W	Tungsten	Backdrop: Silverline TCT Circular Saw Blade, 135mm, tungsten carbide tipped		back wall
75	Re	Rhenium	Arc melted rhenium metal pellets, ampouled, on watch glass	10.759g	center
75	Re	Rhenium	Rhenium-tungsten alloy dart [95% W, 5% Re]	1 piece	across back wall
75	Re	Rhenium	Flash bulb with rhenium igniter (General Electric No. 5)	1 piece	center, against left hand wall
75	Re	Rhenium	Mineral: Molybdenite [MoS ₂] - Australia	3 pieces	front, left to center
75	Re	Rhenium	Ammonium perrhenate [NH ₄ ReO ₄] in 7ml engraved vial	2.075g	back right
75	Re	Rhenium	Pieces of nickel-rhenium superalloy on watch glass [96.36% Ni, 3.64% Re]	18.8863g	front right
76	Os	Osmium	Arc melted osmium metal pellets, embedded in 100mm x 100mm x 30mm acrylic block	11.1804g	back center
76	Os	Osmium	Recotron Long Life Osmium Phonograph Needle	1 piece	front right
76	Os	Osmium	Backdrop: Recotron osmium phonograph needle	-	back wall
77	Ir	Iridium	Arc melted iridium metal pellets, embedded in 100mm x 100mm x 30mm acrylic block	9.4584g	back center
77	Ir	Iridium	NGK IX spark plug	1 piece	center to left wall
77	Ir	Iridium	Fountain pen with iridium tipped nib	1 piece	front right
77	Ir	Iridium	Mineral: K-T Boundary sample - Agost, Spain	1 piece	front left
78	Pt	Platinum	Platinum metal sheet, embedded in 100mm x 100mm x 30mm acrylic block	1.43g	back center
78	Pt	Platinum	Replica coin: United States 2004 \$100 Platinum Eagle [silver plated base metal replica]	1 piece	front center
78	Pt	Platinum	Platinum metal leaf in 14ml engraved vial	2 leaves	center to left wall
78	Pt	Platinum	NGK Laser Platinum spark plug	1 piece	center left
78	Pt	Platinum	Backdrop: Slice of catalytic converter	1 piece	back wall
79	Au	Gold	Gold metal leaf, in 50ml reagent jar	25 leaves	back center
79	Au	Gold	Replica Umicore 10 gram Gold bar [gold plated base metal]	1 piece	center
79	Au	Gold	Replica coins: United Kingdom 1817 1 Sovereign, 1818 1 Sovereign [gold plated base metal]	2 pieces	front center
79	Au	Gold	Gold plated cups	5 pieces	front right hand corner
79	Au	Gold	Assorted gold plated connectors	5 pieces	back right hand corner to front
79	Au	Gold	Gold plated banana plugs	5 pieces	back right hand corner
79	Au	Gold	Purple gold - gold aluminate [AuAl ₂], in 7ml engraved vial	1.06g	center, against left hand wall
79	Au	Gold	Blue gold [AuGa ₂], in 7ml engraved vial	1.02g	center left, between AuAl ₂ and AuIn ₂
79	Au	Gold	Blue gold [AuIn ₂], in 7ml engraved vial	1.01g	center left, to right of AuGa ₂
79	Au	Gold	Mineral: Gold ore - Blyvooruitzicht Gold Mine, Carltonville, South Africa	1 piece	front left hand corner
79	Au	Gold	Backdrop: Gold leaf	-	back wall
80	Hg	Mercury	Ampoule of mercury, embedded in 100mm x 100mm x 30mm acrylic block	33g	back center
80	Hg	Mercury	Fisherbrand -10° to +110°C Thermometer	1 piece	diagonally across cell
80	Hg	Mercury	Mineral: Cinnabar crystals [HgS] on dolomite, (Hunan, China)	1 piece	front right
81	Tl	Thallium	Thallium metal under argon, ampouled, embedded in 14ml engraved vial	7.50g	center
81	Tl	Thallium	Brown rat skulls	3 pieces	front right hand corner
81	Tl	Thallium	Rat poison label	1 piece	back left hand corner
81	Tl	Thallium	Xenon Super Vision HID Head Lamp [green tint produced by thallium]	1 piece	back right hand corner

WEST CHESTER UNIVERSITY PERIODIC TABLE DISPLAY

No:	Sym:	Element:	Sample:	Quantity:	Location:
82	Pb	Lead	Lead metal, pieces under argon, in 50ml reagent jar	310g	center
82	Pb	Lead	Lead metal shot, in 14ml engraved vial	125.97g	center right
82	Pb	Lead	Mineral: Galena - [PbS] - Mexico	1 piece	back right hand corner
82	Pb	Lead	Hand painted cast Lead toy soldiers	3 pieces	center, against left hand wall
82	Pb	Lead	Assorted pieces of printer's type	16 pieces	front right hand corner
82	Pb	Lead	World War I German lead shrapnel balls, La Boisselle, Somme, France, on watch glass	5 pieces	front center
82	Pb	Lead	Lead crystal sherry glass	1 piece	back left hand corner
82	Pb	Lead	Fladen No. 6 Tournamant casting weight (fishing)	56g	front left
82	Pb	Lead	Backdrop: Lead metal sheet	-	back wall
83	Bi	Bismuth	Pieces of bismuth ingot, in 50ml reagent jar	232.11g	back center
83	Bi	Bismuth	Bismuth metal crystals	32.0082g	center, against left hand wall
83	Bi	Bismuth	Bismuth droplets	28.2773g	across front of cube
83	Bi	Bismuth	Bismuth oxide [Bi ₂ O ₃] in 14ml engraved vial	39.66g	center right
83	Bi	Bismuth	Pepto Bismol bottle - contains bismuth subsalicylate [C ₇ H ₅ BiO ₄]	1 bottle	back right hand corner
84	Po	Polonium	Uranium mineral, ampouled and embedded in 14ml engraved vial	59mg	center right
84	Po	Polonium	Firestone Supreme Spark Plug T-40-F, with original box	1 piece	center
84	Po	Polonium	Staticmaster Brush, model 1C200, [contained 1 millicurie polonium per square inch when manufactured]	1 piece	across back of cell
85	At	Astatine	Uranium mineral, ampouled and embedded in 14ml engraved vial	88mg	right of center
85	At	Astatine	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	back center
86	Rn	Radon	Thorium dioxide - [ThO ₂], in sealed 60mm glass sphere	14.70mg	back center
86	Rn	Radon	Radon detector kit	1 piece	front left
86	Rn	Radon	Mineral: Granite - Chapineria, Spain	1 piece	front right
87	Fr	Francium	Uranium mineral, ampouled and embedded in 14ml engraved vial	69mg	right of center
87	Fr	Francium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	back center
88	Ra	Radium	Artco Travel Alarm Clock with radium painted hands	1 piece	center
89	Ac	Actinium	Uranium mineral, ampouled and embedded in 14ml engraved vial	80mg	right of center
89	Ac	Actinium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	back center
90	Th	Thorium	Turnings under argon, ampouled, embedded in 14ml engraved vial	649.90mg	front, right of center
90	Th	Thorium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	back center
90	Th	Thorium	2% thoriated tungsten electrodes - 1mm, 1.6mm & 2.4mm	3 pieces	diagonally across cell
90	Th	Thorium	Thoriated gas lamp mantle	1 piece	against right hand wall
91	Pa	Protactinium	Uranium mineral, ampouled and embedded in 14ml engraved vial	57mg	right of center
91	Pa	Protactinium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	back center
92	U	Uranium	Pieces under argon, ampouled, embedded in 14ml engraved vial	3.48g	front center
92	U	Uranium	Vaseline glass toothpick holder - contains ~2% UO ₂	1 piece	front left
92	U	Uranium	Vaseline glass nuggets - contains ~2% UO ₂ , x 8 pieces	26.9927g	across front of cell
92	U	Uranium	Backdrop: 6" FiestaWare saucer, c.1936	1 piece	across back of cell
93	Np	Neptunium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
94	Pu	Plutonium	Trinitite sample, ampouled and embedded in 14ml engraved vial	2g	right of center
94	Pu	Plutonium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	back center
95	Am	Americium	Smoke detector - contains ~0.28µg ²⁴¹ Am in form of AmO ₂	1 piece	center
96	Cm	Curium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
97	Bk	Berkelium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
98	Cf	Californium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
99	Es	Einsteinium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
100	Fm	Fermium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
101	Md	Mendelevium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
102	No	Nobelium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
103	Lr	Lawrencium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center

WEST CHESTER UNIVERSITY PERIODIC TABLE DISPLAY

No:	Sym:	Element:	Sample:	Quantity:	Location:
104	Rf	Rutherfordium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
105	Db	Dubnium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
106	Sg	Seaborgium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
107	Bh	Bohrium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
108	Hs	Hassium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
109	Mt	Meitnerium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
110	Ds	Darmstadtium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
111	Rg	Roentgenium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
112	Cn	Copernicium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
113	Nh	Nihonium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
114	Fl	Flerovium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
115	Mc	Moscovium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
116	Lv	Livermorium	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
117	Ts	Tennesine	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center
118	Og	Oganesson	Poster picture in 100mm x 100mm x 30mm acrylic photoframe	1 piece	center