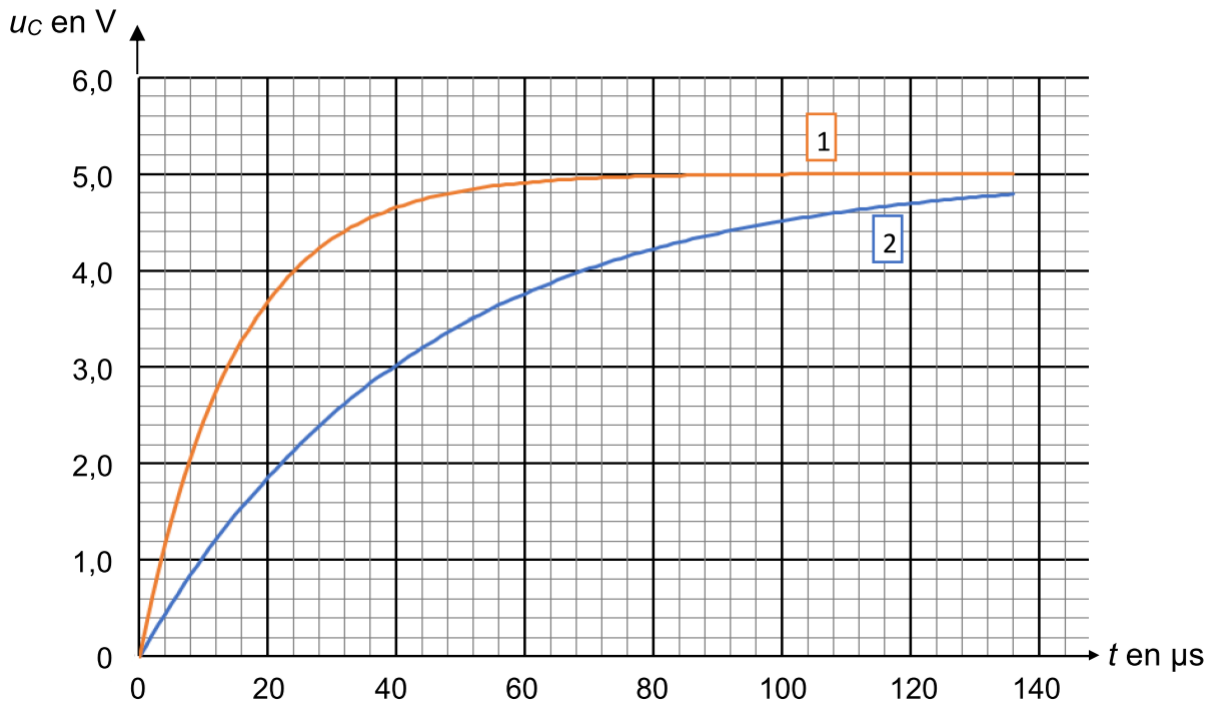


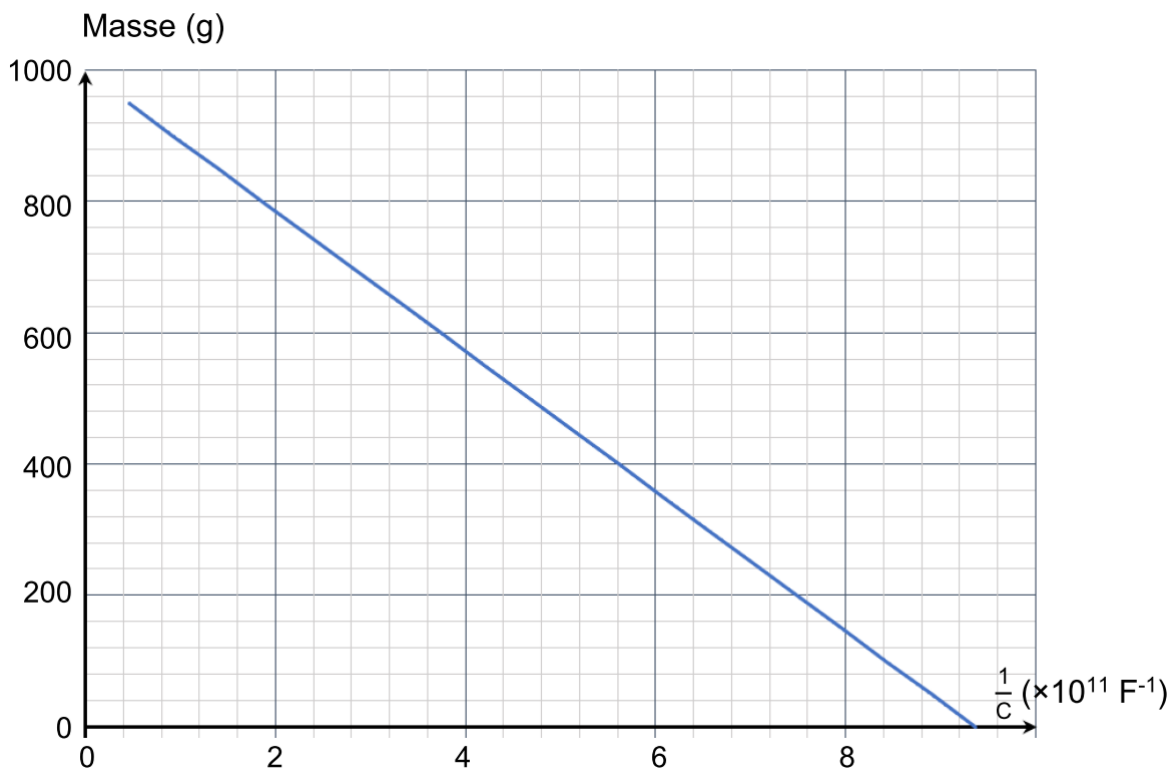
ANNEXE du DS n°5 de PHYSIQUE-CHIMIE

Nom Prénom :

Graphique 1. Évolution de la tension $u_C(t)$ aux bornes du condensateur en fonction du temps, pour 2 masses différentes. La courbe 1 correspond à une masse M_1 et la courbe 2 à une masse M_2 .



Graphique 2. Courbe d'étalonnage de la masse M pesée en fonction de $\frac{1}{C}$.



IUPAC Periodic Table of the Elements

1 H hydrogen 1.008 (1.007, 1.009)	2 He helium 4.003	3 Li lithium 6.941 (6.938, 6.944)	4 Be beryllium 9.012	5 B boron 10.811 (10.806, 10.821)	6 C carbon 12.011 (12.009, 12.011)	7 N nitrogen 14.007 (14.006, 14.008)	8 O oxygen 15.999 (15.998, 16.001)	9 F fluorine 18.998	10 Ne neon 20.180	11 Na sodium 22.990 (22.989, 22.991)	12 Mg magnesium 24.305 (24.304, 24.307)	13 Al aluminum 26.982	14 Si silicon 28.086 (28.085, 28.087)	15 P phosphorus 30.974	16 S sulfur 32.065 (32.063, 32.067)	17 Cl chlorine 35.453 (35.446, 35.457)	18 Ar argon 39.948	19 K potassium 39.098 (39.096, 39.100)	20 Ca calcium 40.078 (40.078, 40.078)	21 Sc scandium 44.956	22 Ti titanium 47.887 (47.887, 47.887)	23 V vanadium 50.942 (50.942, 50.942)	24 Cr chromium 51.996 (51.996, 51.996)	25 Mn manganese 54.938 (54.938, 54.938)	26 Fe iron 55.845 (55.845, 55.845)	27 Co cobalt 58.933 (58.933, 58.933)	28 Ni nickel 58.693 (58.693, 58.693)	29 Cu copper 63.546 (63.546, 63.546)	30 Zn zinc 65.38 (65.38, 65.38)	31 Ga gallium 69.723 (69.723, 69.723)	32 Ge germanium 72.631 (72.631, 72.631)	33 As arsenic 74.922 (74.922, 74.922)	34 Se selenium 78.96 (78.97, 78.97)	35 Br bromine 79.904 (79.904, 79.904)	36 Kr krypton 83.796 (83.796, 83.796)	37 Rb rubidium 85.468 (85.468, 85.468)	38 Sr strontium 87.62 (87.62, 87.62)	39 Y yttrium 88.906 (88.906, 88.906)	40 Zr zirconium 91.224 (91.224, 91.224)	41 Nb niobium 92.906 (92.906, 92.906)	42 Mo molybdenum 95.94 (95.94, 95.94)	43 Tc technetium 98 (98, 98)	44 Ru ruthenium 101.07 (101.07, 101.07)	45 Rh rhodium 102.91 (102.91, 102.91)	46 Pd palladium 106.42 (106.42, 106.42)	47 Ag silver 107.87 (107.87, 107.87)	48 Cd cadmium 112.41 (112.41, 112.41)	49 In indium 114.82 (114.82, 114.82)	50 Sn tin 118.71 (118.71, 118.71)	51 Sb antimony 121.76 (121.76, 121.76)	52 Te tellurium 127.60 (127.60, 127.60)	53 I iodine 126.90 (126.90, 126.90)	54 Xe xenon 131.29 (131.29, 131.29)	55 Cs cesium 132.91 (132.91, 132.91)	56 Ba barium 137.33 (137.33, 137.33)	57-71 Lanthanoids	72 Hf hafnium 178.49 (178.49, 178.49)	73 Ta tantalum 180.95 (180.95, 180.95)	74 W tungsten 183.84 (183.84, 183.84)	75 Re rhenium 186.21 (186.21, 186.21)	76 Os osmium 190.23 (190.23, 190.23)	77 Ir iridium 192.22 (192.22, 192.22)	78 Pt platinum 195.08 (195.08, 195.08)	79 Au gold 196.97 (196.97, 196.97)	80 Hg mercury 200.59 (200.59, 200.59)	81 Tl thallium 204.38 (204.38, 204.38)	82 Pb lead 207.2 (207.2, 207.2)	83 Bi bismuth 208.98 (208.98, 208.98)	84 Po polonium 209 (209, 209)	85 At astatine 210 (210, 210)	86 Rn radon 222 (222, 222)	87 Fr francium 223 (223, 223)	88 Ra radium 226 (226, 226)	89-103 actinoids	104 Rf rutherfordium 261 (261, 261)	105 Db dubnium 262 (262, 262)	106 Sg seaborgium 263 (263, 263)	107 Bh bohrium 264 (264, 264)	108 Hs hassium 265 (265, 265)	109 Mt meitnerium 266 (266, 266)	110 Ds darmstadtium 267 (267, 267)	111 Rg roentgenium 268 (268, 268)	112 Cn copernicium 269 (269, 269)	113 Nh nihonium 270 (270, 270)	114 Fl flerovium 271 (271, 271)	115 Mc moscovium 272 (272, 272)	116 Lv livermorium 273 (273, 273)	117 Ts tennessine 274 (274, 274)	118 Og oganesson 277 (277, 277)	57 La lanthanum 138.91 (138.91, 138.91)	58 Ce cerium 140.12 (140.12, 140.12)	59 Pr praseodymium 140.91 (140.91, 140.91)	60 Nd neodymium 144.24 (144.24, 144.24)	61 Pm promethium 145 (145, 145)	62 Sm samarium 150.36 (150.36, 150.36)	63 Eu europium 151.96 (151.96, 151.96)	64 Gd gadolinium 157.25 (157.25, 157.25)	65 Tb terbium 158.93 (158.93, 158.93)	66 Dy dysprosium 162.50 (162.50, 162.50)	67 Ho holmium 164.93 (164.93, 164.93)	68 Er erbium 167.26 (167.26, 167.26)	69 Tm thulium 168.93 (168.93, 168.93)	70 Yb ytterbium 173.05 (173.05, 173.05)	71 Lu lutetium 174.97 (174.97, 174.97)	89 Ac actinium 227 (227, 227)	90 Th thorium 232 (232, 232)	91 Pa protactinium 231 (231, 231)	92 U uranium 238 (238, 238)	93 Np neptunium 237 (237, 237)	94 Pu plutonium 244 (244, 244)	95 Am americium 243 (243, 243)	96 Cm curium 247 (247, 247)	97 Bk berkelium 247 (247, 247)	98 Cf californium 251 (251, 251)	99 Es einsteinium 252 (252, 252)	100 Fm fermium 257 (257, 257)	101 Md mendelevium 258 (258, 258)	102 No nobelium 259 (259, 259)	103 Lr lawrencium 260 (260, 260)
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Key:
atomic number
name
symbol
conventional atomic weight
standard atomic weight



INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

57 La lanthanum 138.91	58 Ce cerium 140.12	59 Pr praseodymium 140.91	60 Nd neodymium 144.24	61 Pm promethium 145	62 Sm samarium 150.36	63 Eu europium 151.96	64 Gd gadolinium 157.25	65 Tb terbium 158.93	66 Dy dysprosium 162.50	67 Ho holmium 164.93	68 Er erbium 167.26	69 Tm thulium 168.93	70 Yb ytterbium 173.05	71 Lu lutetium 174.97
89 Ac actinium 227	90 Th thorium 232	91 Pa protactinium 231	92 U uranium 238	93 Np neptunium 237	94 Pu plutonium 244	95 Am americium 243	96 Cm curium 247	97 Bk berkelium 247	98 Cf californium 251	99 Es einsteinium 252	100 Fm fermium 257	101 Md mendelevium 258	102 No nobelium 259	103 Lr lawrencium 260

For notes and updates to this table, see www.iupac.org. This version is dated 28 November 2016.
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