

## SS化学基礎 カリキュラムマップ

単元名	探究の問い合わせ Inquiry questions	DP Chemistry の単元名			学習指導要領との対応			実験	実験デザインを含む実験	ICT	評価課題と【評価規準】
			単元	内容							
私たちの根源とは?  私たちや世界を形作る根源はどのような構造をしているのだろうか?	私たちが作り出す「單位」は、私たちのもののか考え方をどのように便利にしているのか?	Materials 物質	A7 Environmental impact-plastics 環境影響—プラスチック	Recycling of plastics	化学基礎(1) アイウ	化学と人間生活	・化学と人間生活のかかわり ・物質の探究 ・化学と人間生活に関する探究活動	鍊金術 ペットボトルのリサイクル			単元テスト【規準A: 知識と理解】 探究活動「梅干から食塩を取り出す」実験ノート 【規準B: 探究】 【規準C: 実験観察の技能】 ポスター制作【規準F: 科学による影響の振り返り】
		Stoichiometric relationships 化学量論の関係	1.1 Introduction to the particulate nature of matter and chemical change 粒子の性質と化学変化入門	states of matter Temperature Changes of state Elements and compounds Mixtures	化学基礎(2) アイウ	物質の構成	・物質の構成粒子 ・物質と化学結合 ・物質の構成に関する探究活動	物質の分離と精製(ヨウ素の昇華と抽出) 同素体の生成(硫黄) 卵の殻と卵白における成分元素の検出(カルシウム、硫黄、窒素、炭素) 金属の性質(ナトリウム、カリウム) 混合物の分離(梅干から食塩を取り出す)	1:Datalogging 5:Computer models/simulation		
とても多くの粒子を数えるには?  私たちが作り出す「單位」は、私たちのもののか考え方をどのように便利にしているのか?	私たちが作り出す「單位」は、私たちのもののか考え方をどのように便利にしているのか?	Stoichiometric relationships 化学量論の関係	1.2 The mole concept モルの概念	SI:the international system of measurement Amount of substance:The mole Relative atomic mass, relative formula mass, and molar mass Mole calculations Experimental empirical and molecular formula determination Stoichiometry	化学基礎(3) ア	物質の変化	・物質量と化学反応式	ちょうど200mLの水素を発生させる 炭酸カルシウムとの反応から塩酸の濃度を求めよう	ちょうど200mLの水素を発生させる		単元テスト【規準A: 知識と理解】
		Measurement and data processing 測定とデータ処理	11.1 11.2 Uncertainties and errors in measurement and results 測定における不確かさと誤差 Graohical techniques グラフ処理	Qualitative and quantitative analysis Uncertainty in measurement Experimental errors The idea of a "best-fit" line							
酸っぱいのはどれだ?  未知のものがあるとき、別の既知のものを利用して、未知のものを求められるだろうか?		Acids and bases 酸と塩基	8.1 Theories of acids and bases 酸と塩基 Properties of acids and bases 酸と塩基の特性	The role of acids and bases Arrhenius's theory of acids and bases Bronsted-Lowry acids and bases Properties of acids and bases The reactions of acids with metals, bases, and carbonates Acid-base titrations The pH scale pH 8.3 8.4 8.5 8.6 8.7 8.8 8.9 8.10 8.11 8.12 8.13 8.14 8.15 8.16 8.17 8.18 8.19 8.20 8.21 8.22 8.23 8.24 8.25 8.26 8.27 8.28 8.29 8.30 8.31 8.32 8.33 8.34 8.35 8.36 8.37 8.38 8.39 8.40 8.41 8.42 8.43 8.44 8.45 8.46 8.47 8.48 8.49 8.50 8.51 8.52 8.53 8.54 8.55 8.56 8.57 8.58 8.59 8.60 8.61 8.62 8.63 8.64 8.65 8.66 8.67 8.68 8.69 8.70 8.71 8.72 8.73 8.74 8.75 8.76 8.77 8.78 8.79 8.80 8.81 8.82 8.83 8.84 8.85 8.86 8.87 8.88 8.89 8.90 8.91 8.92 8.93 8.94 8.95 8.96 8.97 8.98 8.99 8.100 8.101 8.102 8.103 8.104 8.105 8.106 8.107 8.108 8.109 8.110 8.111 8.112 8.113 8.114 8.115 8.116 8.117 8.118 8.119 8.120 8.121 8.122 8.123 8.124 8.125 8.126 8.127 8.128 8.129 8.130 8.131 8.132 8.133 8.134 8.135 8.136 8.137 8.138 8.139 8.140 8.141 8.142 8.143 8.144 8.145 8.146 8.147 8.148 8.149 8.150 8.151 8.152 8.153 8.154 8.155 8.156 8.157 8.158 8.159 8.160 8.161 8.162 8.163 8.164 8.165 8.166 8.167 8.168 8.169 8.170 8.171 8.172 8.173 8.174 8.175 8.176 8.177 8.178 8.179 8.180 8.181 8.182 8.183 8.184 8.185 8.186 8.187 8.188 8.189 8.190 8.191 8.192 8.193 8.194 8.195 8.196 8.197 8.198 8.199 8.200 8.201 8.202 8.203 8.204 8.205 8.206 8.207 8.208 8.209 8.210 8.211 8.212 8.213 8.214 8.215 8.216 8.217 8.218 8.219 8.220 8.221 8.222 8.223 8.224 8.225 8.226 8.227 8.228 8.229 8.230 8.231 8.232 8.233 8.234 8.235 8.236 8.237 8.238 8.239 8.240 8.241 8.242 8.243 8.244 8.245 8.246 8.247 8.248 8.249 8.250 8.251 8.252 8.253 8.254 8.255 8.256 8.257 8.258 8.259 8.260 8.261 8.262 8.263 8.264 8.265 8.266 8.267 8.268 8.269 8.270 8.271 8.272 8.273 8.274 8.275 8.276 8.277 8.278 8.279 8.280 8.281 8.282 8.283 8.284 8.285 8.286 8.287 8.288 8.289 8.290 8.291 8.292 8.293 8.294 8.295 8.296 8.297 8.298 8.299 8.300 8.301 8.302 8.303 8.304 8.305 8.306 8.307 8.308 8.309 8.310 8.311 8.312 8.313 8.314 8.315 8.316 8.317 8.318 8.319 8.320 8.321 8.322 8.323 8.324 8.325 8.326 8.327 8.328 8.329 8.330 8.331 8.332 8.333 8.334 8.335 8.336 8.337 8.338 8.339 8.340 8.341 8.342 8.343 8.344 8.345 8.346 8.347 8.348 8.349 8.350 8.351 8.352 8.353 8.354 8.355 8.356 8.357 8.358 8.359 8.360 8.361 8.362 8.363 8.364 8.365 8.366 8.367 8.368 8.369 8.370 8.371 8.372 8.373 8.374 8.375 8.376 8.377 8.378 8.379 8.380 8.381 8.382 8.383 8.384 8.385 8.386 8.387 8.388 8.389 8.390 8.391 8.392 8.393 8.394 8.395 8.396 8.397 8.398 8.399 8.400 8.401 8.402 8.403 8.404 8.405 8.406 8.407 8.408 8.409 8.410 8.411 8.412 8.413 8.414 8.415 8.416 8.417 8.418 8.419 8.420 8.421 8.422 8.423 8.424 8.425 8.426 8.427 8.428 8.429 8.430 8.431 8.432 8.433 8.434 8.435 8.436 8.437 8.438 8.439 8.440 8.441 8.442 8.443 8.444 8.445 8.446 8.447 8.448 8.449 8.450 8.451 8.452 8.453 8.454 8.455 8.456 8.457 8.458 8.459 8.460 8.461 8.462 8.463 8.464 8.465 8.466 8.467 8.468 8.469 8.470 8.471 8.472 8.473 8.474 8.475 8.476 8.477 8.478 8.479 8.480 8.481 8.482 8.483 8.484 8.485 8.486 8.487 8.488 8.489 8.490 8.491 8.492 8.493 8.494 8.495 8.496 8.497 8.498 8.499 8.500 8.501 8.502 8.503 8.504 8.505 8.506 8.507 8.508 8.509 8.510 8.511 8.512 8.513 8.514 8.515 8.516 8.517 8.518 8.519 8.520 8.521 8.522 8.523 8.524 8.525 8.526 8.527 8.528 8.529 8.530 8.531 8.532 8.533 8.534 8.535 8.536 8.537 8.538 8.539 8.540 8.541 8.542 8.543 8.544 8.545 8.546 8.547 8.548 8.549 8.550 8.551 8.552 8.553 8.554 8.555 8.556 8.557 8.558 8.559 8.560 8.561 8.562 8.563 8.564 8.565 8.566 8.567 8.568 8.569 8.570 8.571 8.572 8.573 8.574 8.575 8.576 8.577 8.578 8.579 8.580 8.581 8.582 8.583 8.584 8.585 8.586 8.587 8.588 8.589 8.590 8.591 8.592 8.593 8.594 8.595 8.596 8.597 8.598 8.599 8.5100 8.5101 8.5102 8.5103 8.5104 8.5105 8.5106 8.5107 8.5108 8.5109 8.5110 8.5111 8.5112 8.5113 8.5114 8.5115 8.5116 8.5117 8.5118 8.5119 8.5120 8.5121 8.5122 8.5123 8.5124 8.5125 8.5126 8.5127 8.5128 8.5129 8.5130 8.5131 8.5132 8.5133 8.5134 8.5135 8.5136 8.5137 8.5138 8.5139 8.5140 8.5141 8.5142 8.5143 8.5144 8.5145 8.5146 8.5147 8.5148 8.5149 8.5150 8.5151 8.5152 8.5153 8.5154 8.5155 8.5156 8.5157 8.5158 8.5159 8.5160 8.5161 8.5162 8.5163 8.5164 8.5165 8.5166 8.5167 8.5168 8.5169 8.5170 8.5171 8.5172 8.5173 8.5174 8.5175 8.5176 8.5177 8.5178 8.5179 8.5180 8.5181 8.5182 8.5183 8.5184 8.5185 8.5186 8.5187 8.5188 8.5189 8.5190 8.5191 8.5192 8.5193 8.5194 8.5195 8.5196 8.5197 8.5198 8.5199 8.5200 8.5201 8.5202 8.5203 8.5204 8.5205 8.5206 8.5207 8.5208 8.5209 8.5210 8.5211 8.5212 8.5213 8.5214 8.5215 8.5216 8.5217 8.5218 8.5219 8.5220 8.5221 8.5222 8.5223 8.5224 8.5225 8.5226 8.5227 8.5228 8.5229 8.5230 8.5231 8.5232 8.5233 8.5234 8.5235 8.5236 8.5237 8.5238 8.5239 8.5240 8.5241 8.5242 8.5243 8.5244 8.5245 8.5246 8.5247 8.5248 8.5249 8.5250 8.5251 8.5252 8.5253 8.5254 8.5255 8.5256 8.5257 8.5258 8.5259 8.5260 8.5261 8.5262 8.5263 8.5264 8.5265 8.5266 8.5267 8.5268 8.5269 8.5270 8.5271 8.5272 8.5273 8.5274 8.5275 8.5276 8.5277 8.5278 8.5279 8.5280 8.5281 8.5282 8.5283 8.5284 8.5285 8.5286 8.5287 8.5288 8.5289 8.5290 8.5291 8.5292 8.5293 8.5294 8.5295 8.5296 8.5297 8.5298 8.5299 8.52100 8.52101 8.52102 8.52103 8.52104 8.52105 8.52106 8.52107 8.52108 8.52109 8.52110 8.52111 8.52112 8.52113 8.52114 8.52115 8.52116 8.52117 8.52118 8.52119 8.52120 8.52121<br							