

CANDIDATE
NAME

--

CENTRE
NUMBER

--	--	--	--	--

CANDIDATE
NUMBER

--	--	--	--



COMBINED SCIENCE

Paper 2

5129/21

May/June 2014

2 hours 15 minutes

Candidates answer on the Question Paper.

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

Electronic calculators may be used.

You may lose marks if you do not show your working or if you do not use appropriate units.

A copy of the Periodic Table is printed on page 20.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.

This document consists of **19** printed pages and **1** blank page.

1 Use words from the list to complete the sentences below.

osmosis **photosynthesis** **respiration**
stamens **stomata** **transpiration**
wilted **yellow**

Each word may be used once, more than once or not at all.

Water enters root hairs of a plant by the process of

Water vapour passes out of the leaves through pores called

Loss of water vapour from leaves is called

When more water is lost from leaves than is replaced by roots, a plant becomes

.....

[4]

2 Magnesium burns in carbon dioxide forming carbon and magnesium oxide.

The equation for the reaction is



(a) (i) Calculate the relative molecular mass of

carbon dioxide,

magnesium oxide.

(A_r : Mg, 24; C, 12; O, 16)

[2]

(ii) Use your answers in part (i) and the equation to complete the following sentence.

24 g of magnesium reacts with g of carbon dioxide and produces g of

magnesium oxide.

[2]

(b) Suggest why magnesium cannot be obtained from magnesium oxide by heating with carbon.

.....

.....[1]

(c) State the type of reaction that the carbon dioxide has undergone.

.....[1]

- 3 A circuit diagram containing two lamps **P** and **Q** is shown in Fig. 3.1.

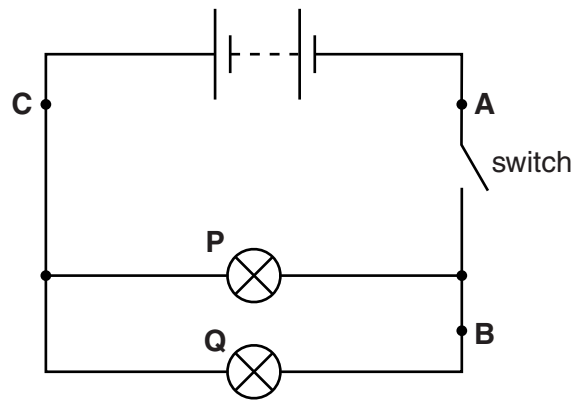


Fig. 3.1

The switch is now closed.

When the switch is closed, the current in lamp **P** is 0.3A and the potential difference across it is 6V.

- (a) Calculate the resistance of lamp **P**.

resistance = unit [3]

- (b) The current in lamp **Q** is 0.2A.

Determine the current in the circuit at

- (i) point **A**, A
 (ii) point **B**, A
 (iii) point **C**, A

[3]

4 Fig. 4.1 is a photomicrograph of blood when seen through a light microscope.

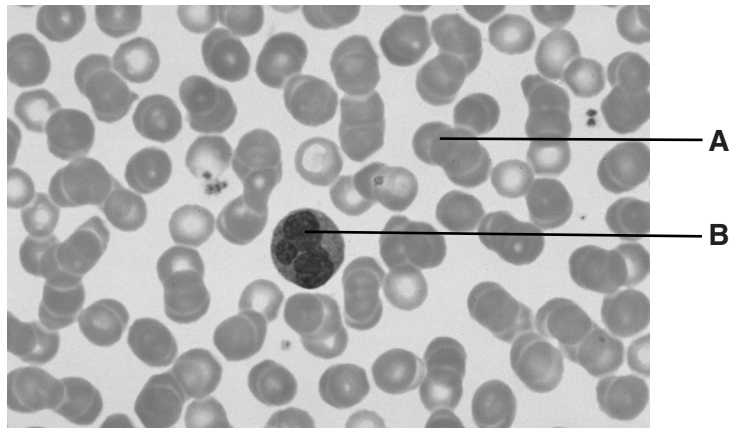


Fig. 4.1

Blood contains plasma, platelets, red blood cells and white blood cells.

(a) In Table 4.1, name components **A** and **B**.

Table 4.1

	name of blood component
A	
B	

[1]

(b) State one function for each of the following components.

platelets

.....

red blood cells

.....

white blood cells

.....

[3]

(c) Plasma transports platelets, red blood cells and white blood cells as well as other substances.

State three of these **other** substances.

1.

2.

3.

[3]

5 The electronic structure of a magnesium **atom** is shown in Fig. 5.1.

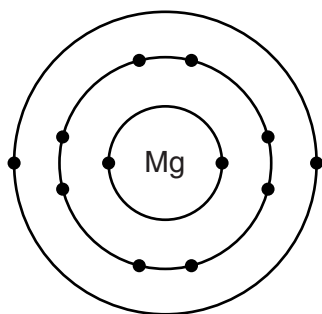


Fig. 5.1

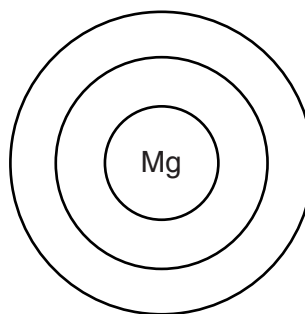


Fig. 5.2

- (a) (i) Complete Fig. 5.2 to show the electronic structure of the magnesium **ion**. [1]
 (ii) State the charge on the magnesium ion. [1]

(b) The nucleon number of an isotope of magnesium atom is 25.

Calculate the number of neutrons in a nucleus of this isotope.

.....[1]

(c) Magnesium reacts with nitric acid to produce magnesium nitrate.

(i) Complete the equation for the reaction.



(ii) Suggest two other substances that react with nitric acid to produce magnesium nitrate.

..... and[2]

6 A boy on a diving board is shown in Fig. 6.1.

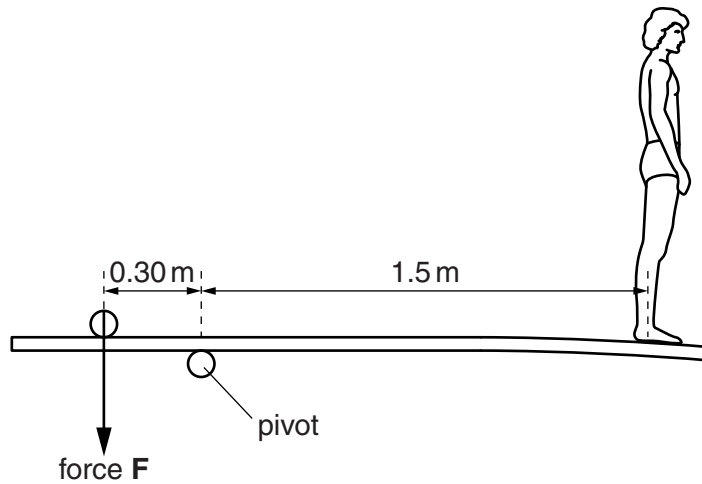


Fig. 6.1

The boy weighs 500 N and stands 1.5 m from the pivot.

The clockwise moment of the boy's weight about the pivot is equal to the anti-clockwise moment of force **F** about the pivot.

(a) Force **F** is 0.30 m from the pivot.

Calculate force **F**.

force **F** = N [2]

(b) The boy steps off the end of the diving board and falls vertically.

(i) Calculate the work done by the force of gravity on the boy as he falls through 1.2 m.

work done = unit [3]

(ii) State the type of energy lost by the boy as he falls.

..... [1]

Please turn over for Question 7

7 (a) (i) Define *diffusion*.

.....
.....
.....
.....[2]

(ii) Name two substances that diffuse across the wall of the alveolus.

- 1.
- 2.

[2]

(b) Fig. 7.1 shows a section through a group of alveoli in a lung. Part of the wall of an alveolus and the capillary next to it has been magnified.

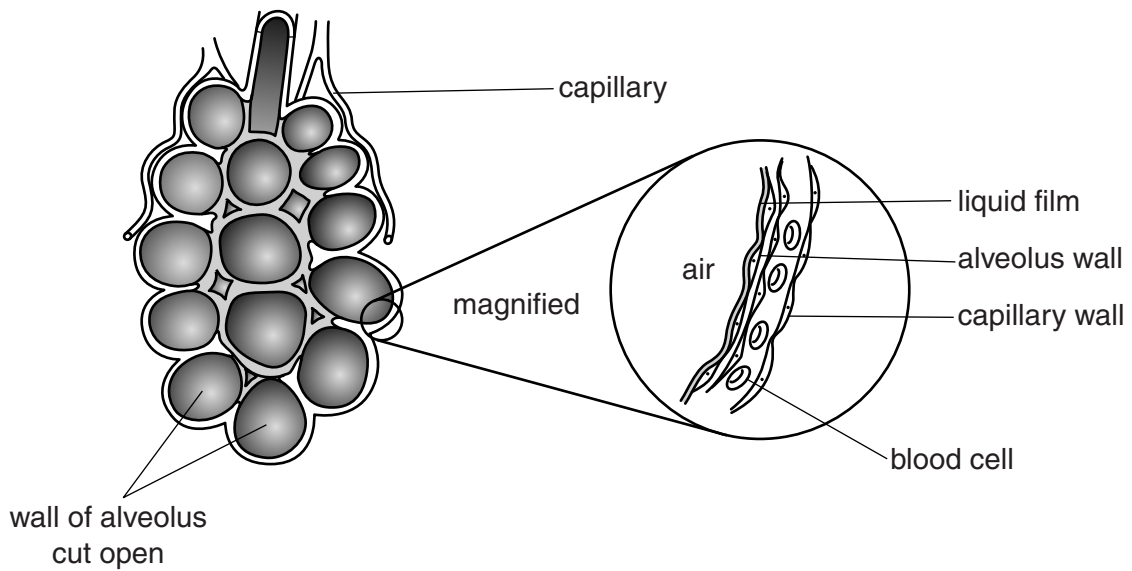


Fig. 7.1

Irritation of the cells of the alveoli produces a thicker liquid film.

(i) Suggest one cause of irritation

.....
.....[1]

- (ii) State and explain how a thicker liquid film affects the rate of diffusion across the wall of the alveolus.

.....

.....

.....

.....[2]

- (iii) Coughing helps to remove the thicker layer of liquid. Repeated coughing over many years may damage the walls of the alveoli.

Fig. 7.2 shows a group of damaged alveoli.

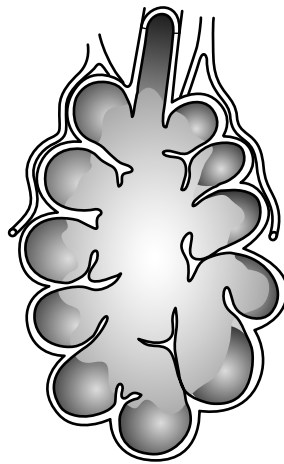


Fig. 7.2

State and explain how this damage will affect diffusion across the walls of the alveoli.

.....

.....

.....

.....[2]

8 Octane is a hydrocarbon obtained by fractional distillation of petroleum.

It is decomposed to ethene, propene and substance **X** by heating in the presence of a catalyst.

The equation for the reaction is



(a) (i) State the name of the process for the decomposition of octane.

.....[1]

(ii) Deduce the formula of **X**.[1]

(iii) Name the homologous series to which **X** belongs.[1]

(b) State what you see when aqueous bromine is added to

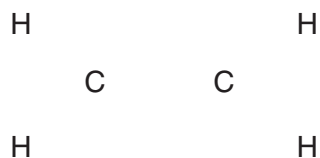
octane,

.....

ethene.

.....[2]

(c) Complete the diagram to show the bonds in a molecule of ethene.



[1]

(d) State the name of the compound formed when ethene reacts with steam.

.....[1]

9 Fig. 9.1 shows a liquid-in-glass thermometer.

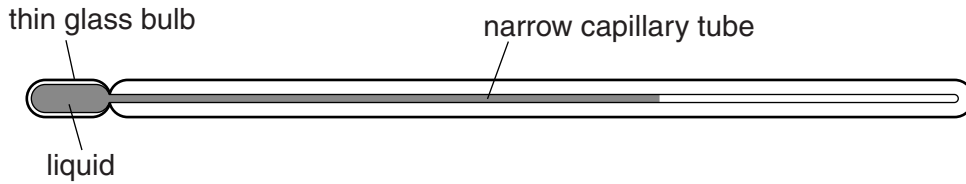


Fig. 9.1

(a) Which physical property of the liquid changes with temperature?
..... [1]

(b) The capillary tube of a clinical liquid-in-glass thermometer is narrower than the capillary tube of a normal laboratory liquid-in-glass thermometer.

Explain why a narrower capillary tube makes a clinical thermometer more sensitive.

.....
.....[1]

(c) (i) State the temperature of pure boiling water.°C [1]

(ii) Explain why a clinical thermometer is **not** used to measure the temperature of boiling water.

.....
.....[1]

10 A balloon on an insulating thread is rubbed with a duster. This removes some electrons from the balloon.

(a) State the sign of the charge now on the balloon. [1]

(b) The balloon is free to move. A second balloon with the same charge is brought near to the first balloon.

State what happens to the first balloon.

.....[1]

11 Fig. 11.1 shows a section through a flower.

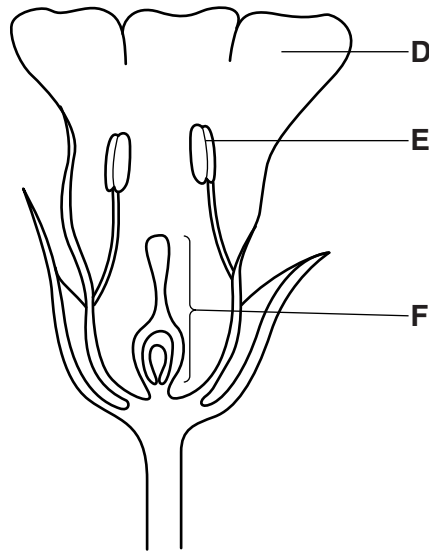


Fig. 11.1

(a) (i) In Table 11.1, name the parts of the flower **D**, **E** and **F**.

Table 11.1

	name of flower part
D	
E	
F	

[3]

(ii) State one function of the

anther,

.....

sepal.

.....

[2]

(b) Flowers produce seeds.

(i) State **two** conditions for a seed to germinate.

1.

2.

[2]

(ii) During germination, the enzyme amylase becomes active in the seed.

State and explain why amylase is necessary during germination.

.....

.....

.....

.....

.....

.....

[3]

- 12 Some properties of five substances are shown in Table 12.1. The letter given for each substance is **not** the chemical symbol of that substance.

Table 12.1

substance	conducts electricity when solid	conducts electricity when melted	melting point /°C	soluble in water
V	no	no	119	no
W	no	no	-78	yes
X	no	yes	857	yes
Y	yes	yes	1083	no
Z	yes	yes	63	reacts with water

Use the letters in Table 12.1 to answer the following questions.

Each letter may be used once, more than once or not at all.

(a) The substance that is not a solid at room temperature is[1]

(b) (i) The substance that is a Group 1 metal is[1]

(ii) Give a reason for your choice in part (i).

.....
[1]

(c) (i) The substance that is an ionic compound is[1]

(ii) Give **two** reasons for your choice in part (i).

1.

 2.

[2]

13 A metal ring and a wooden rod are shown in Fig. 13.1.

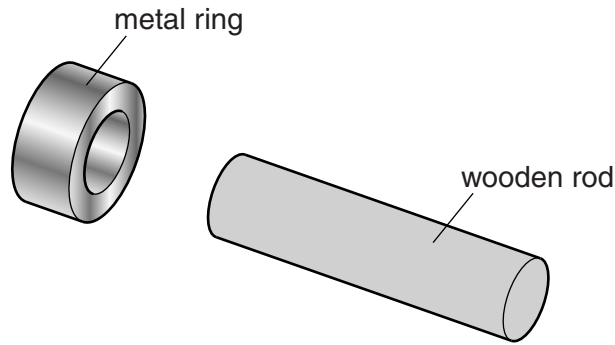


Fig. 13.1

The hole in the metal ring is too small for the wooden rod to fit inside it.

When the metal ring is heated, the wooden rod now fits inside it.

The wooden rod is pushed into the hole in the hot metal ring and the metal ring is cooled. The wooden rod cannot be removed.

(a) Explain why

(i) the wooden rod will fit inside the metal ring when the ring is heated,

.....[1]

(ii) the wooden rod cannot be removed when the metal ring cools.

.....[1]

(b) When the hot metal ring is placed on one end of the wooden rod, as shown in Fig. 13.2, the other end of the rod remains cool.

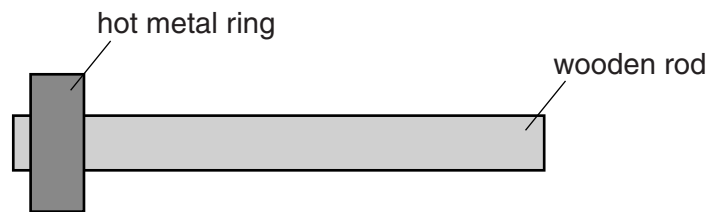


Fig. 13.2

Explain why the other end of the rod remains cool.

.....
.....[1]

(c) Name the method of heat transfer which

(i) involves changes in fluid density,

(ii) can transfer energy through a vacuum.[2]

14 Fig. 14.1 shows the apparatus used to pass 100 cm^3 of air over an excess of heated copper.

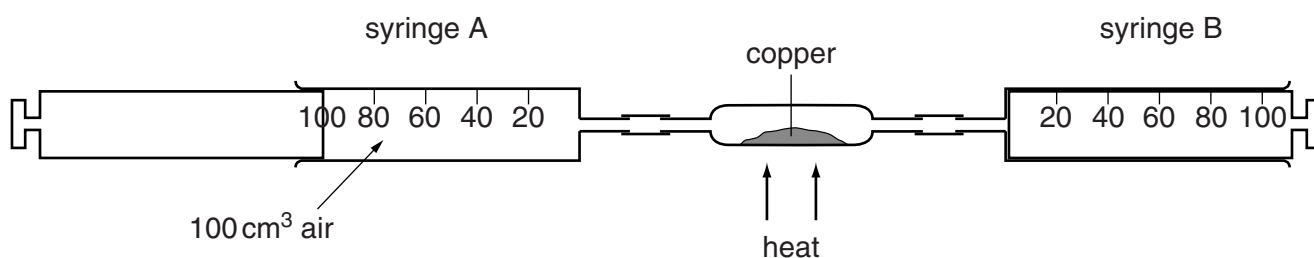


Fig. 14.1

The air is passed over the heated copper several times until there is no further change in the volume of gas. The apparatus is then left to cool to room temperature.

(a) State the name of the gas that

(i) makes up most of the air in the syringe, [1]

(ii) is removed by the copper. [1]

(b) State the final volume of gas in the syringe at the end of the experiment.

final volume cm^3 [1]

(c) (i) State the name of a pollutant produced by the combustion of fossil fuels.

..... [1]

(ii) Explain how this pollutant is produced during the combustion of fossil fuels.

.....

..... [1]

15 Some of the components of the electromagnetic spectrum are shown in Fig. 15.1.

radiowaves	A	infra-red	visible light	ultraviolet	B	gamma-rays
------------	----------	-----------	---------------	-------------	----------	------------

Fig. 15.1

(a) Name components **A** and **B**.

A

B

[2]

(b) Name

(i) the part of an atom that emits gamma-rays,

.....[1]

(ii) the surface colour that is the best absorber of infra-red radiation.

.....[1]

(c) Some light has a frequency of 4.0×10^{14} Hz and a wavelength of 5.0×10^{-7} m in glass.

Calculate the speed of this light in glass.

speed = m/s [2]

16 Many rain forests are being cut down. This causes undesirable effects on the local ecosystem.

Complete the following sentences about the destruction of the rain forests.

Cutting down trees reduces the amount of water vapour and

gas in the atmosphere and increases the amount of gas in

the atmosphere.

The number and variety of animals decrease as a result of a loss of

..... and shelter.

The loss of trees causes to be washed away more quickly.

[4]

17 Complete the following sentences about the Periodic Table.

The Periodic Table is a list of elements arranged in order of number.

The elements are on the left-hand side of the table and the elements are on the right-hand side of the table.

The vertical columns are called and the horizontal rows are called

[4]

18 A car has a mass of 800 kg.

The accelerating force on the car is 2000 N.

(a) Calculate the acceleration of the car.

acceleration =m/s² [2]

(b) The car's initial speed is zero. After some time, the constant accelerating force decreases gradually.

On Fig. 18.1 draw a line to show how the speed of the car changes with time for the constant and for the decreasing accelerating force. [1]



Fig. 18.1

BLANK PAGE

Copyright Acknowledgements:

Question 2 © Ref B06CKB; Melba Photo Agency / Alamy; *Normal Blood Cells*; www.alamy.com.

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

Cambridge International Examinations is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.

DATA SHEET
The Periodic Table of the Elements

		Group										
		I	II	III	IV	V	VI	VII	VIII	IX	X	
		1 H Hydrogen 1										
		2 He Helium 2										
		3 Li Lithium 3	4 Be Beryllium 4									
		5 B Boron 5	6 C Carbon 6	7 N Nitrogen 7	8 O Oxygen 8	9 F Fluorine 9	10 Ne Neon 10					
		11 Na Sodium 11	12 Mg Magnesium 12									
		13 Al Aluminium 13	14 Si Silicon 14	15 P Phosphorus 15	16 S Sulfur 16	17 Cl Chlorine 17	18 Ar Argon 18					
		19 K Potassium 19	20 Ca Calcium 20	21 Sc Scandium 21	22 Ti Titanium 22	23 V Vanadium 23	24 Cr Chromium 24	25 Mn Manganese 25	26 Fe Iron 26	27 Co Cobalt 27	28 Ni Nickel 28	29 Cu Copper 29
		37 Rb Rubidium 37	38 Sr Strontium 38	39 Y Yttrium 39	40 Zr Zirconium 40	41 Nb Niobium 41	42 Mo Molybdenum 42	43 Tc Technetium 43	44 Ru Ruthenium 44	45 Rh Rhodium 45	46 Pd Palladium 46	47 Ag Silver 47
		55 Cs Caesium 55	56 Ba Barium 56	57 La Lanthanum 57	72 Hf Hafnium 72	73 Ta Tantalum 73	74 W Tungsten 74	75 Re Rhenium 75	76 Os Osmium 76	77 Ir Iridium 77	78 Pt Platinum 78	79 Au Gold 79
		87 Fr Francium 87	88 Ra Radium 88	89 Ac Actinium 89								
		85 Po Polonium 85	86 At Astatine 86									
		103 Lr Lawrencium 103	104 Rf Rutherfordium 104	105 Db Dubnium 105	106 Sg Seaborgium 106	107 Bh Bohrium 107	108 Hs Hassium 108	109 Mt Meitnerium 109	110 Ds Darmstadtium 110	111 Rg Roentgenium 111	112 Cn Copernicium 112	113 Nh Nihonium 113
		121 Uu Ununennium 121	122 Uub Unbibium 122									
		151 Uut Ununtrium 151	152 Uuq Ununquadium 152	153 Uub Ununbium 153	154 Uuq Ununquadium 154	155 Uup Ununpentium 155	156 Uuq Ununquadium 156	157 Uuh Ununhexium 157	158 Uuq Ununquadium 158	159 Uuh Ununhexium 159	160 Uuq Ununquadium 160	161 Uuh Ununhexium 161
		171 Uuq Ununquadium 171	172 Uuh Ununhexium 172	173 Uuh Ununhexium 173	174 Uuq Ununquadium 174	175 Uuh Ununhexium 175	176 Uuq Ununquadium 176	177 Uuh Ununhexium 177	178 Uuq Ununquadium 178	179 Uuh Ununhexium 179	180 Uuq Ununquadium 180	181 Uuh Ununhexium 181
		189 Uue Ununennium 189	190 Uub Ununbium 190	191 Uuh Ununhexium 191	192 Uuq Ununquadium 192	193 Uuh Ununhexium 193	194 Uuq Ununquadium 194	195 Uuh Ununhexium 195	196 Uuq Ununquadium 196	197 Uuh Ununhexium 197	198 Uuq Ununquadium 198	199 Uuh Ununhexium 199
		209 Po Polonium 209	210 At Astatine 210									
		227 Fr Francium 227	228 Ra Radium 228	229 Ac Actinium 229								
		269 Uue Ununennium 269	270 Uub Ununbium 270	271 Uuh Ununhexium 271	272 Uuq Ununquadium 272	273 Uuh Ununhexium 273	274 Uuq Ununquadium 274	275 Uuh Ununhexium 275	276 Uuq Ununquadium 276	277 Uuh Ununhexium 277	278 Uuq Ununquadium 278	279 Uuh Ununhexium 279
		289 Uue Ununennium 289	290 Uub Ununbium 290	291 Uuh Ununhexium 291	292 Uuq Ununquadium 292	293 Uuh Ununhexium 293	294 Uuq Ununquadium 294	295 Uuh Ununhexium 295	296 Uuq Ununquadium 296	297 Uuh Ununhexium 297	298 Uuq Ununquadium 298	299 Uuh Ununhexium 299
		309 Uue Ununennium 309	310 Uub Ununbium 310	311 Uuh Ununhexium 311	312 Uuq Ununquadium 312	313 Uuh Ununhexium 313	314 Uuq Ununquadium 314	315 Uuh Ununhexium 315	316 Uuq Ununquadium 316	317 Uuh Ununhexium 317	318 Uuq Ununquadium 318	319 Uuh Ununhexium 319
		329 Uue Ununennium 329	330 Uub Ununbium 330	331 Uuh Ununhexium 331	332 Uuq Ununquadium 332	333 Uuh Ununhexium 333	334 Uuq Ununquadium 334	335 Uuh Ununhexium 335	336 Uuq Ununquadium 336	337 Uuh Ununhexium 337	338 Uuq Ununquadium 338	339 Uuh Ununhexium 339
		349 Uue Ununennium 349	350 Uub Ununbium 350	351 Uuh Ununhexium 351	352 Uuq Ununquadium 352	353 Uuh Ununhexium 353	354 Uuq Ununquadium 354	355 Uuh Ununhexium 355	356 Uuq Ununquadium 356	357 Uuh Ununhexium 357	358 Uuq Ununquadium 358	359 Uuh Ununhexium 359
		369 Uue Ununennium 369	370 Uub Ununbium 370	371 Uuh Ununhexium 371	372 Uuq Ununquadium 372	373 Uuh Ununhexium 373	374 Uuq Ununquadium 374	375 Uuh Ununhexium 375	376 Uuq Ununquadium 376	377 Uuh Ununhexium 377	378 Uuq Ununquadium 378	379 Uuh Ununhexium 379
		389 Uue Ununennium 389	390 Uub Ununbium 390	391 Uuh Ununhexium 391	392 Uuq Ununquadium 392	393 Uuh Ununhexium 393	394 Uuq Ununquadium 394	395 Uuh Ununhexium 395	396 Uuq Ununquadium 396	397 Uuh Ununhexium 397	398 Uuq Ununquadium 398	399 Uuh Ununhexium 399
		409 Uue Ununennium 409	410 Uub Ununbium 410	411 Uuh Ununhexium 411	412 Uuq Ununquadium 412	413 Uuh Ununhexium 413	414 Uuq Ununquadium 414	415 Uuh Ununhexium 415	416 Uuq Ununquadium 416	417 Uuh Ununhexium 417	418 Uuq Ununquadium 418	419 Uuh Ununhexium 419
		429 Uue Ununennium 429	430 Uub Ununbium 430	431 Uuh Ununhexium 431	432 Uuq Ununquadium 432	433 Uuh Ununhexium 433	434 Uuq Ununquadium 434	435 Uuh Ununhexium 435	436 Uuq Ununquadium 436	437 Uuh Ununhexium 437	438 Uuq Ununquadium 438	439 Uuh Ununhexium 439
		449 Uue Ununennium 449	450 Uub Ununbium 450	451 Uuh Ununhexium 451	452 Uuq Ununquadium 452	453 Uuh Ununhexium 453	454 Uuq Ununquadium 454	455 Uuh Ununhexium 455	456 Uuq Ununquadium 456	457 Uuh Ununhexium 457	458 Uuq Ununquadium 458	459 Uuh Ununhexium 459
		469 Uue Ununennium 469	470 Uub Ununbium 470	471 Uuh Ununhexium 471	472 Uuq Ununquadium 472	473 Uuh Ununhexium 473	474 Uuq Ununquadium 474	475 Uuh Ununhexium 475	476 Uuq Ununquadium 476	477 Uuh Ununhexium 477	478 Uuq Ununquadium 478	479 Uuh Ununhexium 479
		489 Uue Ununennium 489	490 Uub Ununbium 490	491 Uuh Ununhexium 491	492 Uuq Ununquadium 492	493 Uuh Ununhexium 493	494 Uuq Ununquadium 494	495 Uuh Ununhexium 495	496 Uuq Ununquadium 496	497 Uuh Ununhexium 497	498 Uuq Ununquadium 498	499 Uuh Ununhexium 499
		509 Uue Ununennium 509	510 Uub Ununbium 510	511 Uuh Ununhexium 511	512 Uuq Ununquadium 512	513 Uuh Ununhexium 513	514 Uuq Ununquadium 514	515 Uuh Ununhexium 515	516 Uuq Ununquadium 516	517 Uuh Ununhexium 517	518 Uuq Ununquadium 518	519 Uuh Ununhexium 519
		529 Uue Ununennium 529	530 Uub Ununbium 530	531 Uuh Ununhexium 531	532 Uuq Ununquadium 532	533 Uuh Ununhexium 533	534 Uuq Ununquadium 534	535 Uuh Ununhexium 535	536 Uuq Ununquadium 536	537 Uuh Ununhexium 537	538 Uuq Ununquadium 538	539 Uuh Ununhexium 539
		549 Uue Ununennium 549	550 Uub Ununbium 550	551 Uuh Ununhexium 551	552 Uuq Ununquadium 552	553 Uuh Ununhexium 553	554 Uuq Ununquadium 554	555 Uuh Ununhexium 555	556 Uuq Ununquadium 556	557 Uuh Ununhexium 557	558 Uuq Ununquadium 558	559 Uuh Ununhexium 559
		569 Uue Ununennium 569	570 Uub Ununbium 570	571 Uuh Ununhexium 571	572 Uuq Ununquadium 572	573 Uuh Ununhexium 573	574 Uuq Ununquadium 574	575 Uuh Ununhexium 575	576 Uuq Ununquadium 576	577 Uuh Ununhexium 577	578 Uuq Ununquadium 578	579 Uuh Ununhexium 579
		589 Uue Ununennium 589	590 Uub Ununbium 590	591 Uuh Ununhexium 591	592 Uuq Ununquadium 592	593 Uuh Ununhexium 593	594 Uuq Ununquadium 594	595 Uuh Ununhexium 595	596 Uuq Ununquadium 596	597 Uuh Ununhexium 597	598 Uuq Ununquadium 598	599 Uuh Ununhexium 599
		609 Uue Ununennium 609	610 Uub Ununbium 610	611 Uuh Ununhexium 611	612 Uuq Ununquadium 612	613 Uuh Ununhexium 613	614 Uuq Ununquadium 614	615 Uuh Ununhexium 615	616 Uuq Ununquadium 616	617 Uuh Ununhexium 617	618 Uuq Ununquadium 618	619 Uuh Ununhexium 619
		629 Uue Ununennium 629	630 Uub Ununbium 630	631 Uuh Ununhexium 631	632 Uuq Ununquadium 632	633 Uuh Ununhexium 633	634 Uuq Ununquadium 634	635 Uuh Ununhexium 635	636 Uuq Ununquadium 636	637 Uuh Ununhexium 637	638 Uuq Ununquadium 638	639 Uuh Ununhexium 639
		649 Uue Ununennium 649	650 Uub Ununbium 650	651 Uuh Ununhexium 651	652 Uuq Ununquadium 652	653 Uuh Ununhexium 653	654 Uuq Ununquadium 654	655 Uuh Ununhexium 655	656 Uuq Ununquadium 656	657 Uuh Ununhexium 657	658 Uuq Ununquadium 658	659 Uuh Ununhexium 659
		669 Uue Ununennium 669	670 Uub Ununbium 670	671 Uuh Ununhexium 671	672 Uuq Ununquadium 672	673 Uuh Ununhexium 673	674 Uuq Ununquadium 674	675 Uuh Ununhexium 675	676 Uuq Ununquadium 676	677 Uuh Ununhexium 677	678 Uuq Ununquadium 678	679 Uuh Ununhexium 679
		689 Uue Ununennium 689	690 Uub Ununbium 690	691 Uuh Ununhexium 691	692 Uuq Ununquadium 692	693 Uuh Ununhexium 693	694 Uuq Ununquadium 694	695 Uuh Ununhexium 695	696 Uuq Ununquadium 696	697 Uuh Ununhexium 697	698 Uuq Ununquadium 698	699 Uuh Ununhexium 699
		709 Uue Ununennium 709	710 Uub Ununbium 710	711 Uuh Ununhexium 711	712 Uuq Ununquadium 712	713 Uuh Ununhexium 713	714 Uuq Ununquadium 714	715 Uuh Ununhexium 715	716 Uuq Ununquadium 716	717 Uuh Ununhexium 717	718 Uuq Ununquadium 718	719 Uuh Ununhexium 719
		729 Uue Ununennium 729	730 Uub Ununbium 730	731 Uuh Ununhexium 731	732 Uuq Ununquadium 732	733 Uuh Ununhexium 733	734 Uuq Ununquadium 734	735 Uuh Ununhexium 735	736 Uuq Ununquadium 736	737 Uuh Ununhexium 737	738 Uuq Ununquadium 738	739 Uuh Ununhexium 739
		749 Uue Ununennium 749	750 Uub Ununbium 750	751 Uuh Ununhexium 751	752 Uuq Ununquadium 752	753 Uuh Ununhexium 753	754 Uuq Ununquadium 754	755 Uuh Ununhexium 755	756 Uuq Ununquadium 756	757 Uuh Ununhexium 757	758 Uuq	