

	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education
CANDIDATE NAME	
CENTRE NUMBER	CANDIDATE NUMBER
CO-ORDINAT	ED SCIENCES 0654/02
Paper 2 (Core	October/November 2008
	2 hours

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 a soft pencil for any diagrams, graphs, tables or rough working.

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

DO NOT WRITE IN ANY BARCODES

Answer all questions. A copy of the Periodic Table is printed on page 28.

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.

For Exam	iner's Use
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
Total	

This document consists of 25 printed pages and 3 blank pages.



1	A fo	ootba	all match is taking place.	For
	(a) When the ball is kicked it travels at 5 m/s.		Examiner's Use	
		(i)	The ball has a mass of 0.6 kg.	
			Calculate the kinetic energy of the ball.	
			State the formula that you use and show your working.	
			formula	
			working	
			J [	2]
		(ii)	Calculate the momentum of the ball.	
			State the formula that you use and show your working.	
			formula	
			working	
			kgm/s [	2]
	(b)	Точ	wards the end of the ball's journey it is slowing down.	
		Are	the forces on the ball balanced or unbalanced?	
		Exp	blain your answer.	
			L	[1]
	(c)		e players need a lot of energy to play a game of football. te the <b>two</b> main food types which supply the players with this energy.	
		1		
		2		[2]

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Fig. 2.1 shows a cane toad.

2

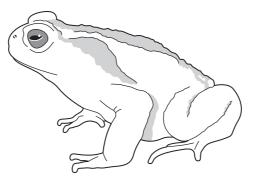


	Fig. 2.1				
(a)	State <b>one</b> feature of a cane toad, visible in Fig. 2.1, which shows that it is an amphibian.				
	[1]				
(b)	Name the genus to which cane toads belong.				
	[1]				
(c)	Use the information above to write a food chain involving cane toads. For each organism, state whether it is a producer or a consumer.				
	[2]				

(d) Biologists noticed that some cane toads had longer legs than others. They thought that perhaps toads with longer legs could travel faster than other toads.

They collected toads with different leg lengths, and measured the distance the toads travelled in 24 hours. The results are shown in Fig. 2.2.

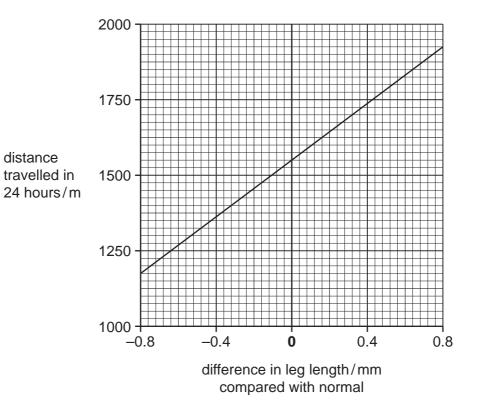


Fig. 2.2

(i) The number **0** on the x axis indicates toads that had normal leg lengths.

Calculate the speed at which a toad with normal leg length travelled. Show your working.

m per hour [2]

(ii) Describe the relationship between the length of the toad's legs and the speed at which it travelled.

[1]

(iii) State two variables that the researchers should have kept the same in their investigation.

1	
2	[2]

(e)	The digestive system of a cane toad is very similar to the human digestive system. The diet of a cane toad is high in protein.	For Examiner's Use
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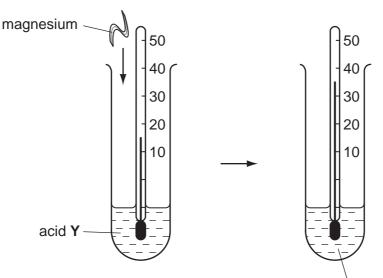
(i) Name the kind of enzyme that digests proteins to amino acids.

......[1]

(ii) Suggest the part of a cane toad's digestive system where the amino acids are absorbed into the blood.

......[1]

3 A student investigates the reaction between magnesium and dilute acid Y. Fig. 3.1 shows the metal being added to the acid contained in a test-tube, and also the same tube some time later.



magnesium chloride solution

Fig. 3.1

(a) (i) Name the compound present after the reaction that was not present before. [1] ..... (ii) Name acid Y. [1] ..... (iii) The student observed bubbles of gas escaping from the mixture. She collected samples of this gas and tested them with limewater, a glowing wooden splint and a lit wooden splint. Explain which one of these tests produced a positive result. ..... ..... [2] ..... (iv) Explain how it is possible to tell from Fig. 3.1 that the reaction was exothermic. [2] .....

- (b) Magnesium alloys are widely used in making parts for aircraft and racing car engines.
  - (i) One type of magnesium alloy contains the elements zinc and zirconium.

Suggest how this magnesium alloy is made.

[1]

(ii) Suggest and explain why a magnesium alloy, rather than a transition metal such as iron, is used to make parts for aircraft and racing cars.

[2]

4	(a)	Soi	ne countries	use nuclear fission rea	ctors	to generate	electricity.			For Examiner's
		(i)	What is mea	ant by the term <i>nuclear</i>	fissic	n?				Use
									[2]	
		(ii)	State <b>one</b> a reactors.	dvantage and <b>one</b> disa	advan	tage of gei	nerating electr	icity using n	nuclear	
			advantage							
			disadvantag	10						
			uisauvailtay	Je					[2]	
		(iii)	Complete th	he boxes to show how r	nuclea	r power sta	ations transfer	energy.		
		nucl		energy of steam	->		energy urbine	→	trical	
	L	ene	gy	UI Steam		01			ergy [2]	

**(b)** When nuclear fuel is used in a power station, ionising radiation is released.

Table 4.1 shows some information about three types of ionising radiation.

	radiation	ionising power	deflection by electric field
	alpha	very strong	small
	beta	moderate	large
	gamma	weak	none
(i)	Explain why alpha and b radiation is not.	eta radiations are deflected by	an electric field but gamma
			[1]
(ii)	Explain why beta radiat field.	ion is deflected more than alp	bha radiation by an electric
			[1]
(iii)	Explain why alpha radiat	ion is the most ionising.	
			[1]
(iv)	State <b>one</b> effect of ionisi	ng radiation on living things.	
			[4]
			[1]
(v)	Why are radioactive sou	rces stored in lead containers?	
			[1]

Table 4.1

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For Examiner's Use

**5** Fig. 5.1 shows the female reproductive system.

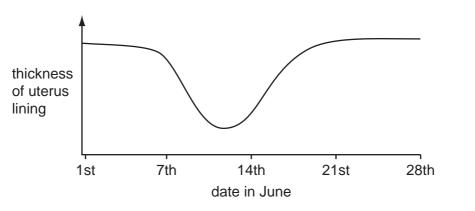
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Fig.5.1

(a) Give the letter on the diagram which represents each of the following structures.

vagina	
ovary	
uterus	
oviduct	 [2]

(b) Fig. 5.2 shows how the thickness of the uterus lining changes during one month of the menstrual cycle.





(i) Explain how the graph shows that menstruation began on June 7th.

[1]

(ii) Suggest the date on which ovulation (the release of an egg from an ovary) occurred.

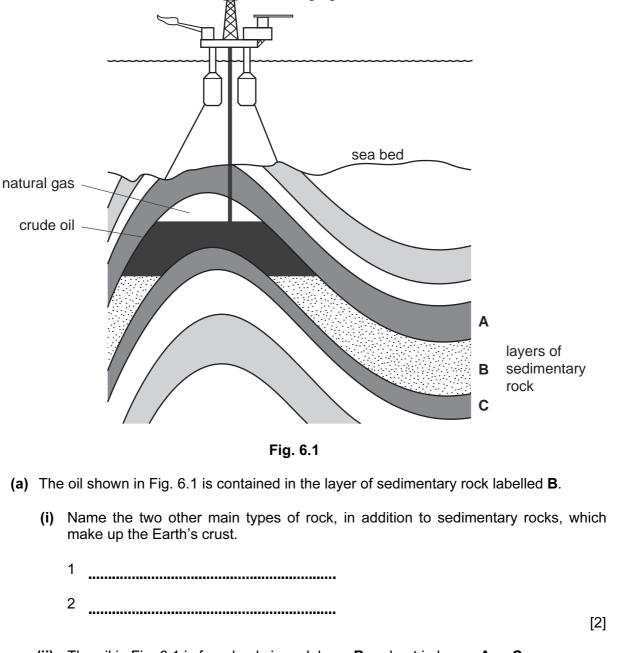
[1]

<b>(c)</b> Du	During fertilisation, a sperm fuses with an egg.				
(i)	Name the part of the reproductive system where fertilisation takes place.				
	[1]				
(ii)	A sperm contains 23 chromosomes.				
	How many chromosomes does an egg contain?				
	[1]				
(iii)	Name the part of a sperm or an egg which contains the chromosomes.				
	[1]				
(d) (i)	AIDS can be transmitted from one person to another during sexual intercourse.				
	Explain how this transmission can take place.				
	[2]				
(ii)	Outline <b>two</b> ways by which the spread of AIDS by this method can be limited.				
	[2]				

11

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Fig. 6.1 shows crude oil (petroleum) being extracted from sedimentary rock under the sea.
 oil drilling rig



(ii) The oil in Fig. 6.1 is found only in rock layer **B** and not in layers **A** or **C**.

Suggest the property of rock **B** which is different from rocks **A** and **C**, and which allows it to contain oil.

[1]

(b) Crude oil is a mixture of different hydrocarbon molecules. A typical hydrocarbon molecule is shown in Fig. 6.2.

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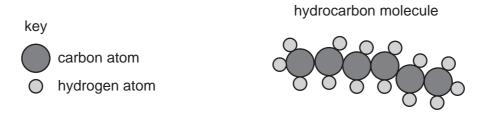


Fig. 6.2

Some hydrocarbon molecules are different from others in crude oil because their carbon atoms form a branched chain as shown in Fig. 6.3.

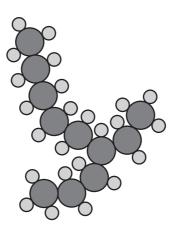


Fig. 6.3

Describe **two** other ways in which hydrocarbon molecules can be different from one another.

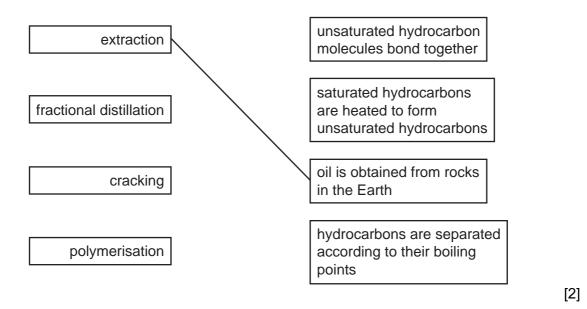
1	
2	
	[2]

(c) Some hydrocarbons are changed by chemical reactions into a very wide range of materials including plastics. Plastics are made of polymer molecules. Examiner's

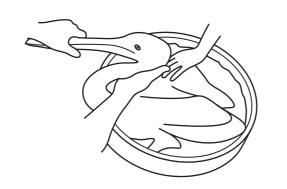
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Use

Some of the reactions and processes which are required to produce a typical plastic are shown below. Draw lines linking the statements. One line has already been drawn.



(d) If an oil tanker is involved in an accident, oil may spill into the sea. If sea birds become covered in crude oil they will die unless the oil can be removed.



(i) Why is water alone not able to wash the oil from the birds?

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

(ii) Suggest what could be added to the water in order to remove the oil from the birds.

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15

Please turn over for Question 7

- 7 An airline passenger enters an airport.
  - (a) He buys some hot food at the restaurant and carries it away in a polystyrene container.Explain why a polystyrene container is used to keep food hot.

[1]

(b) He then moves up an escalator (moving staircase) as shown in Fig. 7.1.

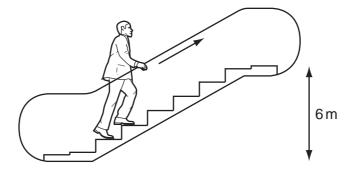


Fig. 7.1

The passenger weighs 900N.

(i) Calculate the work done lifting the passenger a vertical distance of 6 metres.

State the formula that you use and show your working.

formula

working

\_\_\_\_\_J [2]

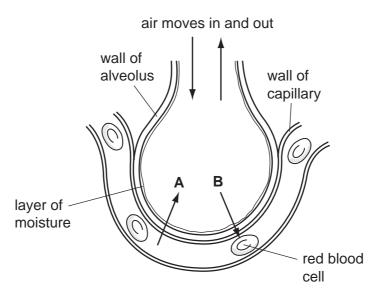
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(ii) State the potential energy the passenger has gained when he reaches the top of the escalator.

\_\_\_\_\_J [1]

(c)	The	e aeroplane that the passenger travels on is able to navigate using radar.	For Examiner's
	This involves the use of microwaves. These are part of the electromagnetic spectrum.		
	(i)	Name <b>one</b> other wave which is part of the electromagnetic spectrum.	
		[1]	
	(ii)	State the speed at which these waves travel in a vacuum.	
		m/s [1]	

**8** Fig. 8.1 shows an alveolus and a blood capillary in the lungs.





(a) (i) Name the gases that move as indicated by arrows A and B.
A \_\_\_\_\_\_\_B \_\_\_\_\_\_\_B \_\_\_\_\_\_\_[2]
(ii) Name the process by which the gases move. \_\_\_\_\_\_\_\_\_[1]
(b) Describe what happens in the red blood cells as they pass through the lungs. \_\_\_\_\_\_\_\_[2]

(c) Fig. 8.2 shows the structure of a leaf.

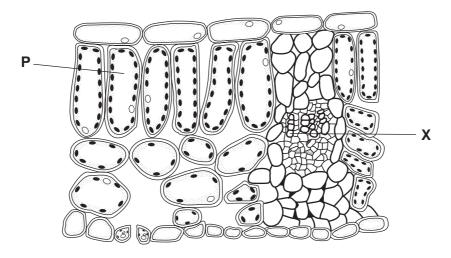


Fig. 8.2

(i)	Cell <b>P</b> contains many chloroplasts and can photosynthesise.
	At night, cell <b>P</b> takes in oxygen and gives out carbon dioxide.
	In the daytime, cell <b>P</b> takes in carbon dioxide and gives out oxygen.
	Explain why this happens.
	at night
	in daytime
	[3]
(ii)	On Fig. 8.2, draw an arrow to show how gases travel to cell <b>P</b> from the air. [1]
(iii)	Cell <b>X</b> is a xylem vessel.
	Give <b>two</b> functions of a xylem vessel in a leaf.
	1
	2 [2]

**9** Litmus and alizarin yellow are substances which can be used to indicate the pH of a solution. The colours of these substances in solutions of different pH ranges are shown below.

	pH 4.5 and lower	pH 8.3 and higher	
litmus	red	blue	
	pH 10.1 and lower	pH 12.0 and higher	
alizarin yellow	yellow	brown	

(a) A student wishes to find out if a colourless solution is an acid or an alkali by using one of the substances named above.

Explain why she should use litmus and not alizarin yellow.

[2]

- (b) Litmus is obtained from plant material and alizarin yellow is a synthetic dye. The chemical formula of alizarin yellow is  $C_{13}H_8N_3NaO_5$ .
  - (i) Explain the meaning of the term *synthetic dye*.

[2]

(ii) How many metallic elements are shown in the formula of alizarin yellow?

......[1]

For

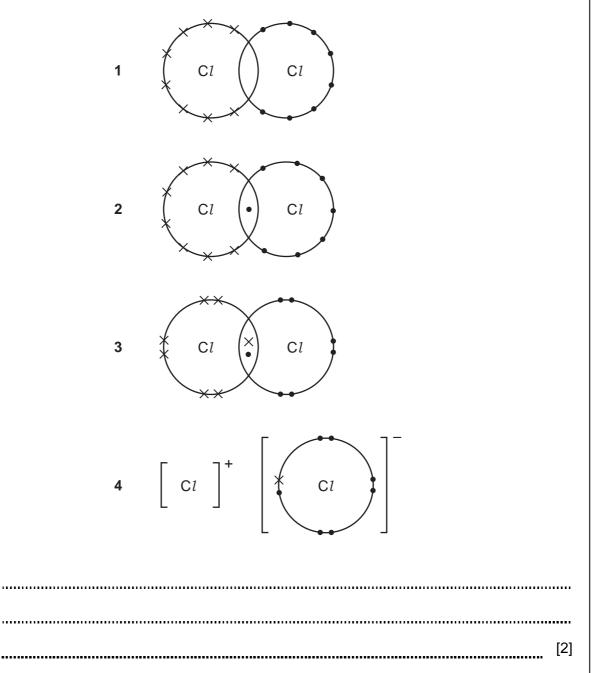
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(iii) Name a method which could be used to find out whether a mixture contained both litmus and alizarin yellow.

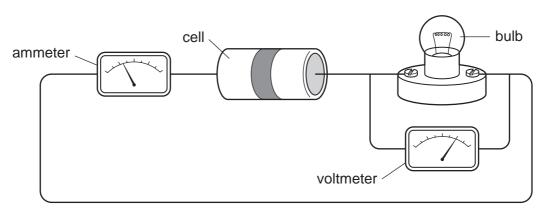
.....[1]

(c) The atoms in molecules are joined by covalent chemical bonds.

Explain which **one** of the diagrams, **1** to **4**, shows a covalent bond between the atoms in a chlorine molecule.



**10** (a) A simple circuit is shown in Fig. 10.1.





In the space below, draw the circuit diagram for this circuit using the correct symbols.

[3]

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(b) Fig. 10.2 shows a d.c. electric motor.

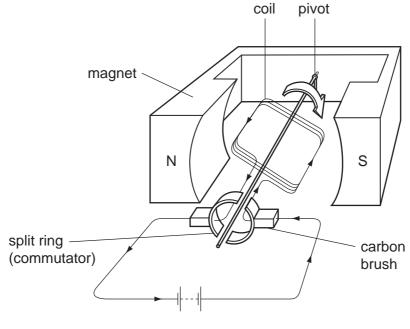


Fig. 10.2

	(i)	Suggest <b>two</b> ways of making the coil spin more quickly.	For
		1	Examiner's Use
		2	
		[2]	
	(ii)	Apart from changing the direction of the current in the coil, how could you reverse the motion of the coil?	
		[1]	
(c)	An	electric motor is connected to a 240V supply.	
	The	e maximum current used by the motor is 4 A.	
	(i)	Use the formula <b>power = voltage x current</b> to calculate the maximum power put into the motor.	
		Show your working.	
	(ii)	Explain why the electrical input power will be greater than the useful mechanical output power.	
		[2]	
		[2]	

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**11** Fig. 11.1 shows the apparatus and substances used by a student to make an electrical cell.

zinc electrode electrode electrolyte



(a) (i) What type of compound must be dissolved in water to produce an electrolyte?

[1]

(ii) The student finds that the voltmeter reads 1.1V.

He then replaces the copper electrode with another electrode made of zinc.

Predict and explain briefly the new voltmeter reading.

[2]

Explain your answer. substance oxidised explanation .....

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The following chemical reaction occurs inside the cell when the stereo is switched on.

 $Zn + 2MnO_2 \rightarrow ZnO + Mn_2O_3$ 

Name the substance which is oxidised in this reaction.

.....

[2]

- (b) In the electrical cell in Fig. 11.1 zinc atoms are converted into positively charged zinc ions, Zn<sup>2+</sup>. Examiner's
  - (i) State the number of electrons in one atom of zinc. Use your copy of the Periodic Table on page 28 to help you to answer this question.
    - ......[1]

For

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(ii) Describe what happens to a zinc atom when it changes into a zinc ion.

[2] .....

- (c) Fig. 11.2 shows an electrical cell used in a personal stereo.
  - + 🛛



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	0	Helium 4	2 20 10 Neon 10 Neon 10 Argon	84 <b>Kr</b> Krypton 36	131 Xenon 54	86 Radon	175 Luu Lutetium 71 Lawrencium 103
	١١		19 Fluorine 9 35.5 C C C	80 Bromine 35	127 I Iodine 53	At Astatine 85	173 Ybb 70 Nobelium 102
	>		16 <sup>16</sup> <sup>0</sup> <sup>0</sup> <sup>0</sup> <sup>0</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup> <sup>16</sup>	79 Selenium 34	128 <b>Te</b> <sup>Tellurium</sup> 52	Po Polonium 84	169 Thulium 69 Md Md Md Mondelevium 101
	>		14 Nitrogen 31 15 Phosphorus	75 AS Arsenic 33	122 <b>Sb</b> 51	209 Bismuth 83	167 Er <sup>Erbium</sup> 68 Fermium 100
	≥		6 Carbon 6 Carbon 8 28 28 28 28 14	73 <b>Ge</b> Germanium 32	119 <b>Sn</b> 50	207 Pb 82 Lead	165 Holmium 67 ES Ensteinium 99
	≡		11 B 5 Boron 5 27 27 Auminium 13	70 <b>Ga</b> 31	115 <b>In</b> Indium 49	204 <b>T Z</b> 81	162 Dysprosium 66 Cf Californium 98
cilli				65 <b>Zn</b> 30 <sup>Zinc</sup>	112 <b>Cd</b> Cadmium 48	201 Hercury 80	159 Terbium 65 BK Berkelium 97
Group dauge of the clements				64 Copper 29	108 Ag Silver	197 <b>Au</b> 79 Gold	157 Gd Gadolinium 64 CM
Group				59 Nickel 28	106 <b>Pd</b> Palladium 46	195 <b>Pt</b> Platinum 78	152 Eu Europium 63 Americium 95
Gro				59 <b>CO</b> <sup>Cobatt</sup>	103 <b>Rh</b> Rhodium 45	192 Ir 77	150 Samarium 62 Pu Pu Ptutonium
		Hydrogen	~	56 <b>Fe</b> Iron	101 <b>Ru</b> Ruthenium 44	190 Osmium 76	Promethium 61 Neptumum 93
			_	55 Manganese 25	Tc Technetium 43	186 <b>Ree</b> Rhenium 75	144 Neodymium 60 238 238 Uranium
				52 <b>Cr</b> Chromium 24	96 <b>MO</b> Molybdenum 42	184 <b>V</b> 74	141 Pr 59 Protactinium 59 Pa
				51 V Vanadium 23	93 <b>ND</b> Niobium 41	181 <b>Ta</b> 73	140 Ce 58 232 232 Thorium
				48 Tritanium 22	91 <b>Zr</b> Zirconium 40	178 Hafnium 72	nic mass ool number
				45 SC Scandium 21	_	139 La thanum thanum 227 Ac	89         1           Did series         1           Series         1           a = relative atomic mass         1           X = atomic symbol         1           b = proton (atomic) number         1
	=		9 Beryllium 4 24 Nagnesium	40 Cakcium 20	88 <b>St</b> rontium 38	137 Ba <sup>Barium</sup> 56 226 <b>Ra</b> Radium	87     88     89       *58-71 Lanthanoid series       190-103 Actinoid series       Key     a = relative a       Key     b = rotonic series
	1		7 Lithium 23 Sodium	39 <b>K</b> Potassium 19	85 <b>Rb</b> Rubidium	133 Caestium 5 Francium	۰ La

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