



**DR. A. Q. KHAN SCHOOL & COLLEGE, BAHRIA TOWN, PHASE-8, ISLAMABAD**  
**SUMMER VACATION HOMEWORK TASK, 2022**

**SUBJECT: COMPUTER SCIENCE**

**CLASS: VI**

Design a chart for community awareness about adverse effect of ICT on health.

1. Write paragraph on the following health related issues of using technology and suggest solutions to avoid these problems:  
Posture related injuries, like back and neck ache, muscle and joint problems, eyestrain, behaviour problems, obesity issues.
2. Prepare a chart with pictures and labeling of hardware components.(three input, three output , three storage, three communication devices)
3. Prepare charts related to ICT laboratory do's and don'ts.
4. Create a folder, name the folder "**Class VI**" in Drive D. Open this folder, and now create another folder "**Summer Task**" in it. Create shortcut of "**Class VI**" folder to desktop.
5. Prepare a document in **Microsoft Word** and add the snips (using snipping tool) of the desktop components like taskbar, start menu, recycle bin icon, file explorer icon, folder icon and shortcut of any file.
6. Search the **YouTube** to find exciting and informative videos to enhance your knowledge.

Computer Basics what is a computer?

Computer Basic Parts of a Desktop Computer

Computer Basics Creating a Safe Workspace

What is Software? <https://www.youtube.com/watch?v=KZ8fRowFmM>

Types of System Software, Computer Science Lecture |Sabaq.pk |

<https://www.youtube.com/watch?v=dBTtmaWjCR8>

Computer Basics: Understanding Operating Systems

Windows Basics Getting Started with the Desktop <https://www.youtube.com/watch?v=GDKIxBr6yhI>

What is a Computer? Explain the basic parts of a Computer desktop.



## ۸ ے کیو خان سکول اینڈ کالج بحریہ ٹاؤن فیز

موسم گرما کی تعطیلات کا کام

مضمون: آسان اردو

جماعت: ششم

- \* روزانہ ایک سبق کی پڑھائی درست تلفظ کے ساتھ کریں۔
- \* ہر سبق میں سے نئے الفاظ کی فہرست بنائیں۔ اور ان کے معانی لکھیں۔
- \* ہر سبق میں سے تین تین الفاظ کو اپنے جملوں میں استعمال کریں۔
- \* سال کے بارہ مہینوں کے نام لکھیں۔
- \* موسم برسات ، خزاں ، گرمی ، اور سردی کے عنوان سے پانچ پانچ جملے لکھیں۔
- \* اپنی پسندیدہ شخصیت کے بارے میں دو صفحات پر مشتمل ایک مضمون لکھیں۔
- \* دس پہلوں اور دس سبزیوں کے نام لکھیں۔
- \* دس محاورے لکھیں اور ان کے معانی بھی لکھیں۔
- \* ایک سے پچاس تک اردو میں لفظی گنتی لکھیں۔



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**SUMMER VACATION HOMEWORK TASK, 2022**  
**SUBJECT: ISLAMIYAT**  
**CLASS: VI**

- Memorisation and translation: 23: سورة الاعراف
- Dua: دعا: صبح و شام کی دعا: Morning & Evening.
- Learn the translation of Hadiths 1-3
- Write Asma ul Husna(1-9) on a scrapbook and memorize the meaning.
- Make a list of various signs of Allah from your surroundings.
- Why should we remain clean at all times? What are the different ways of keeping ourselves clean?
- Describe some of Hazrat Khadija's unique qualities.



## ۷ کیو خان سکول اینڈ کالج بحریہ ٹاؤن فیض ۸

موسم گرما کی تعطیلات کا کام

مضمون: اسلامیات

جماعت: ششم

حفظ و ترجمہ: سورہ البقرہ-آیت 250 مع ترجمہ لکھیں اور یاد کریں۔

حفظ کلمات: دوسرا کلمہ یاد کریں۔

دعا: صبح اور شام کی دعا یاد کریں۔

احادیث (1 تا 3) کا ترجمہ یاد کریں۔

اسمائے حسنیٰ (1 تا 9) کو اسکرپ بک پر خوبصورتی سے تحریر کریں اور معانی یاد کریں۔

اپنے اردگرد موجود ماحول میں سے اللہ تعالیٰ کی مختلف نشانیوں کی فہرست بنائیں۔

ہجرت مدینہ سے لے کر خطبہ حجۃ الوداع تک کے واقعات کی ترتیب زمانی تعین (ٹائم لائن) کے مطابق لکھیں۔

طہارت اور پاکیزگی حاصل کرنے کے لئے وضو، غسل اور تیمم کا طریقہ تحریر کریں۔

حضرت خدیجہ رضی اللہ تعالیٰ عنہا کی علمی اور دینی خدمات پر روشنی ڈالیں۔



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**SUMMER VACATION HOMEWORK TASK, 2022**  
**SUBJECT: MATHEMATICS**  
**CLASS: VI**

Q 1: Let A is the set of odd numbers less than 20.

List all the elements of A in set notation. Is  $2 \in A$  ?

Q 2: State whether each of the following statements is true or false.

- $W = \text{Whole numbers} = \{0,1,2\}$
- $\{\emptyset\} = \emptyset$
- $n(\emptyset) = 0$
- $4 \notin \text{even numbers}$
- $i \in \{a, e, i, o, u\}$

Q 3: State number of elements in each of the following sets.

- Odd numbers divisible by 2.
- Dinosaur living on the earth.
- Triangles having four vertices.
- Vowels in the word "PAKISTAN".
- Even numbers between 10 and 12.

Q 4: Represent the following sets through Venn diagram.

$$A = \{0,2,4,6,\dots,15\}, B = \{2,3,5,7,\dots,13\}, U = \{0,1,2,3,\dots,20\}$$

What do you say the shade portion of the circle represent.

Q 5: Subtraction of whole numbers is not commutative and associative. Why? Give any example.

Q 6: Division by zero is not possible. Why?

Q 7: Fill the following.

- i.  $15 + (\underline{\quad} + 12) = (\underline{\quad} + 5) + 12$
- ii.  $\underline{\quad} + (10 + 12) = (21 \times \underline{\quad}) + (\underline{\quad} \times 2)$
- iii.  $13 \times (\underline{\quad} - 2) = (13 \times 100) - (13 \times \underline{\quad})$
- iv.  $(\underline{\quad} + 13) = (\underline{\quad} \times 2) + (1 \times \underline{\quad})$
- v.  $251 \times (\underline{\quad} + 1) = (251 \times 10) + (\underline{\quad} \times 1)$

Q 8: What number is a factor of all numbers.

Q 9: One of the numbers 2, 3, 4, 5, 6, 8, 9, 11 does not divide 6480. Find it.

Q 10: Find the least length of a rope which can be cut into pieces of lengths 30m, 36m and 54m.

Q 11: Find the smallest sum of money that is an exact multiple of Rs. 72, Rs. 80 and Rs. 96.

Q 12: In the following table, temperatures in different conditions are given.

<b>Condition</b>	<b>Temperature ( in Celcius)</b>
Boiling point of water	100
Average oven temperature	180
Temperature of human body	37
Freezing point of water	0
Freezing point of mercury	-38.8
Temperature of dry ice	-80
Temperature of lunar day	120
Temperature of lunar night	-160

- i. What is the coldest and hottest temperature given?
- ii. What is the difference in temperature of the lunar day and lunar night?
- iii. Arrange the temperatures in order from hottest to coldest.

Q 13: Why 1 is neither a prime number nor a composite number?

Q 14: Write any 3 digit number and do prime factorization.

Q 15: Write first five multiples of numbers 9 and 12.

Q 16: Find the lowest number which is exactly divisible by 18 and 24.

Q 17: Write all prime numbers between the following

- 31 and 50
- 50 and 90
- 61 and 80

Q 18: Write all composite numbers between the following

- 40 and 50
- 75 and 90
- 25 and 35

Q 19: In each case arrange the given integers in ascending order:

-8, 0, -5, 5, 4, -1

3, -3, 4, -7, 0, -6, 2

-1, -7, 8, -3, 0, 3, 17

Q 20: In each case arrange the given integers in descending order:

-5, -3, 8, 15, 0, -2

12, 23, -11, 0, 7, 6

-1, -21, -31, 12, 5, 11

Q 21: Write and verify the distributive property of multiplication.

- i.  $100 \times 102$
- ii.  $19 \times 19$
- iii.  $40 \times 22$
- iv.  $103 \times 59$

Q 22: Represent the following arithmetic operations on number line.

- i.  $9 - 5$
- ii.  $2 + 2 + 3$
- iii.  $8 - 5$
- iv.  $8 - 8$

Q 23: Fill in the blanks with  $>$ ,  $<$  or  $=$

- i.  $-4$  \_\_\_\_\_  $0$
- ii.  $1000$  \_\_\_\_\_  $-1000$
- iii.  $-6$  \_\_\_\_\_  $-4$
- iv.  $0$  \_\_\_\_\_  $-1$
- v.  $-18$  \_\_\_\_\_  $18$
- vi.  $+7$  \_\_\_\_\_  $7$
- vii.  $-11$  \_\_\_\_\_  $11$

Q 24: Use a number line to represent the following.

- i. Set of integers greater than  $-6$  and less than  $6$
- ii. Set of integers between  $-2$  and  $10$

Q 25: Two ropes are  $64$  cm and  $80$  cm long. What maximum length of piece can be cut equally from the given ropes?

### Activities

Activity 1:

Write any five real life examples of finite and infinite sets.

Activity 2:

Write down the following properties of addition for whole numbers and give 2 examples in each case.

- i. Commutative Property
- ii. Associative Property
- iii. Additive Identity

Activity 3:

Pick two numbers from the boxes on the left, whose sum is  $22$ . Do not repeat the numbers. Write the numbers in the boxes on the right.

22		11	5
		2	15
12	17	3	12
20	19	7	11

	+		=	22
	+		=	22
	+		=	22
	+		=	22
	+		=	22

Activity 4:

Note down the temperature of your 5 favorite countries and represent them on the number line.

Activity 5:

Use each of the digits 1, 2, 3 and 4. Place appropriate operation symbol and brackets to derive the given answer.

Example:  $(4 + 3 - 1) \times 2 = 12$

	= 11
$(4 + 3 - 1) \times 2$	= 12
	= 13
	= 14
	= 15
	= 16
	= 17
	= 18
	= 19
	= 20

Activity 6:

Take any 4 digit number and check the divisibility by 2, 3, 4, 5, 6, 7, 8, 10 and 11 by giving proper reason.

**Note:** All the questions should be done on narrow line loose sheets with proper working. Do all activities on A4 size paper.





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**SUBJECT: GENERAL SCIENCE**  
**CLASS: VI**

Q1: How many kinds of elements and number of atoms are present in the following compound?

Note: This will not be included in exam.

S.No	Name of compounds	Formula	Types of element and their names	No of atoms in a molecule
1.	Acetic acid formula	$\text{CH}_3\text{COOH}$		
2.	Hydrochloric acid formula	$\text{HCl}$		
3.	Sulfuric acid formula	$\text{H}_2\text{SO}_4$		
4.	Acetate formula	$\text{CH}_3\text{COO}^-$		
5.	Ammonia formula	$\text{NH}_3$		
6.	Nitric acid formula	$\text{HNO}_3$		
7.	Phosphoric acid formula	$\text{H}_3\text{PO}_4$		
8.	Sodium phosphate formula	$\text{Na}_3\text{PO}_4$		
9.	Calcium carbonate formula	$\text{CaCO}_3$		
10.	Ammonium sulfate formula	$(\text{NH}_4)_2\text{SO}_4$		
11.	Carbonic acid formula	$\text{H}_2\text{CO}_3$		
12.	Sodium bicarbonate formula	$\text{NaHCO}_3$		
13.	Sodium hydroxide formula	$\text{NaOH}$		
14.	Calcium hydroxide formula	$\text{Ca}(\text{OH})_2$		
15.	Ethanol formula	$\text{C}_2\text{H}_5\text{OH}$		
16.	Hydrobromic acid formula	$\text{HBr}$		

17.	Hydrosulfuric acid formula	$\text{H}_2\text{SO}_4$		
18.	Nitrous acid formula	$\text{HNO}_2$		
19.	Potassium phosphate formula	$\text{KH}_2\text{PO}_4$		
20.	Silver nitrate formula	$\text{AgNO}_3$		
21.	Sodium chloride formula	$\text{Na}_2\text{CO}_3$		
22.	Sodium chloride formula	$\text{NaCl}$		
23.	Aluminum hydroxide formula	$\text{Al}(\text{OH})_3$		
24.	Magnesium hydroxide formula	$\text{Mg}(\text{OH})_2$		
25.	Methane formula	$\text{CH}_4$		
26.	Nitrogen monoxide formula	$\text{NO}$		
27.	Potassium hydroxide formula	$\text{KOH}$		
28.	Sodium nitrate formula	$\text{NaNO}_3$		
29.	Sulfurous acid formula	$\text{H}_2\text{SO}_3$		
30.	Phosphate formula	$\text{PO}_4^-$		
31.	Aluminum oxide formula	$\text{Al}_2\text{O}_3$		
32.	Ammonia chemical formula	$\text{NH}_3$		
33.	Ammonium nitrate formula	$\text{NH}_4\text{NO}_3$		
34.	Ammonium phosphate formula	$(\text{NH}_4)_3\text{PO}_4$		
35.	Barium hydroxide formula	$\text{Ba}(\text{OH})_2$		
36.	Carbon tetrachloride formula	$\text{CCl}_4$		

Q2: Write down the symbol of the following elements with the help of periodic table.

(practise only)

Note: This will not be included in exam.

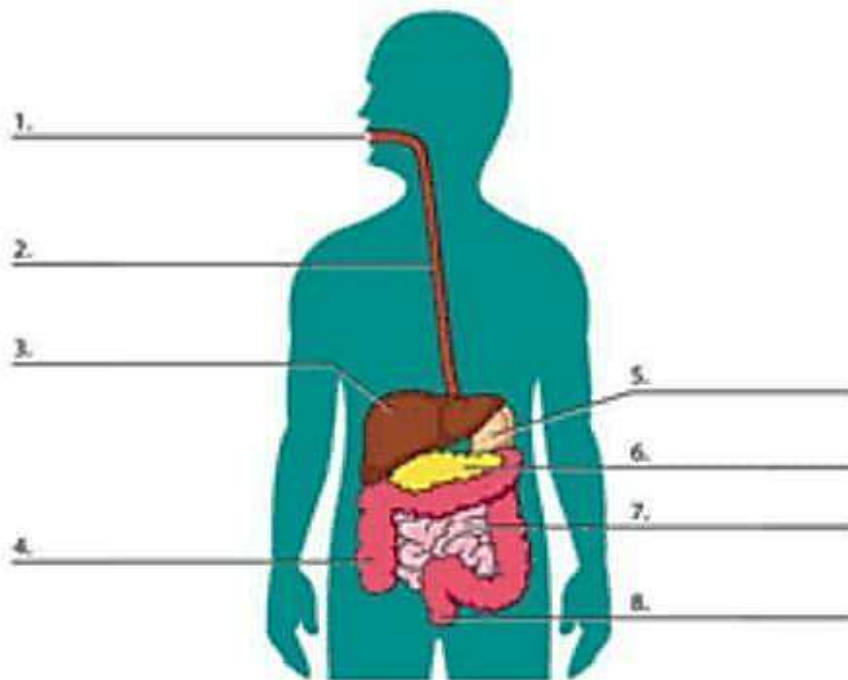
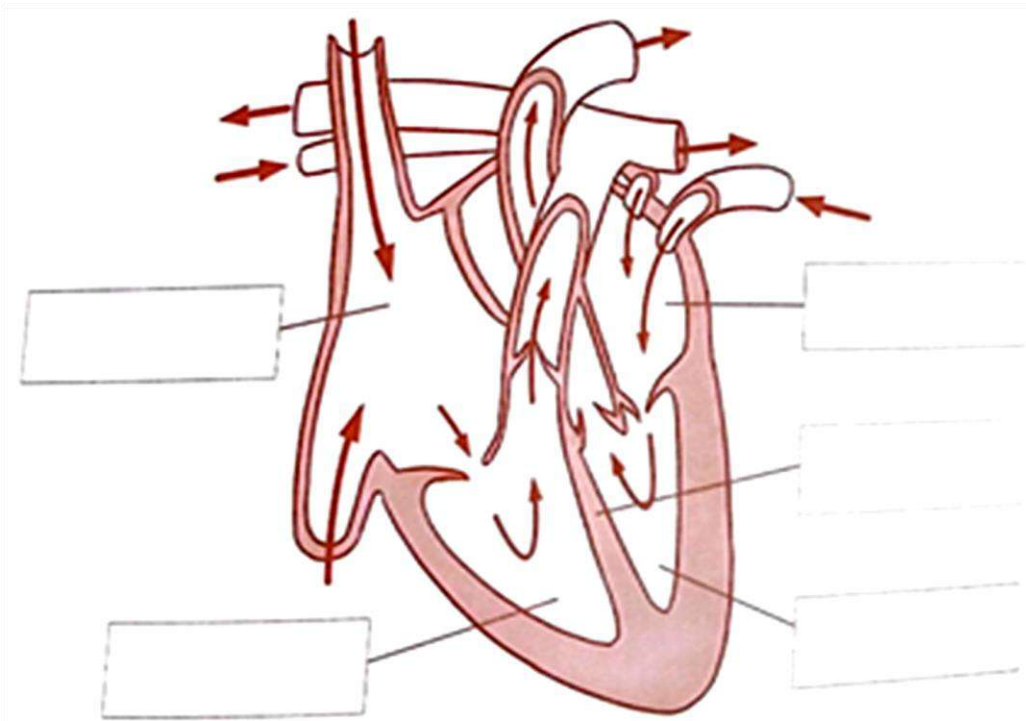
**Periodic Table of the Elements**

1 H Hydrogen 1.008	2 He Helium 4.003																
3 Li Lithium 6.941	4 Be Beryllium 9.012											5 B Boron 10.81	6 C Carbon 12.011	7 N Nitrogen 14.007	8 O Oxygen 15.999	9 F Fluorine 18.998	10 Ne Neon 20.180
11 Na Sodium 22.990	12 Mg Magnesium 24.305	13 Al Aluminum 26.982	14 Si Silicon 28.086	15 P Phosphorus 30.974	16 S Sulfur 32.06	17 Cl Chlorine 35.453	18 Ar Argon 39.948										
19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.88	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.38	31 Ga Gallium 69.723	32 Ge Germanium 72.61	33 As Arsenic 74.922	34 Se Selenium 78.96	35 Br Bromine 79.904	36 Kr Krypton 83.80
37 Rb Rubidium 85.468	38 Sr Strontium 87.62	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.94	43 Tc Technetium 98.906	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.905	46 Pd Palladium 106.36	47 Ag Silver 107.868	48 Cd Cadmium 112.411	49 In Indium 114.818	50 Sn Tin 118.71	51 Sb Antimony 121.757	52 Te Tellurium 127.6	53 I Iodine 126.905	54 Xe Xenon 131.29
55 Cs Cesium 132.905	56 Ba Barium 137.327	57-71 Lanthanide Series	72 Hf Hafnium 178.49	73 Ta Tantalum 180.948	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.22	78 Pt Platinum 195.084	79 Au Gold 196.967	80 Hg Mercury 200.59	81 Tl Thallium 204.387	82 Pb Lead 207.2	83 Bi Bismuth 208.980	84 Po Polonium (209)	85 At Astatine 210	86 Rn Radon 222.018
87 Fr Francium 223.019	88 Ra Radium 226.025	89-103 Actinide Series	104 Rf Rutherfordium (261)	105 Db Dubnium (262)	106 Sg Seaborgium (263)	107 Bh Bohrium (264)	108 Hs Hassium (265)	109 Mt Meitnerium (266)	110 Ds Darmstadtium (267)	111 Rg Roentgenium (268)	112 Cn Copernicium (269)	113 Uut Ununtrium (270)	114 Fl Flerovium (271)	115 Uup Ununpentium (272)	116 Lv Livermorium (273)	117 Uus Ununseptium (274)	118 Uuo Ununoctium (275)

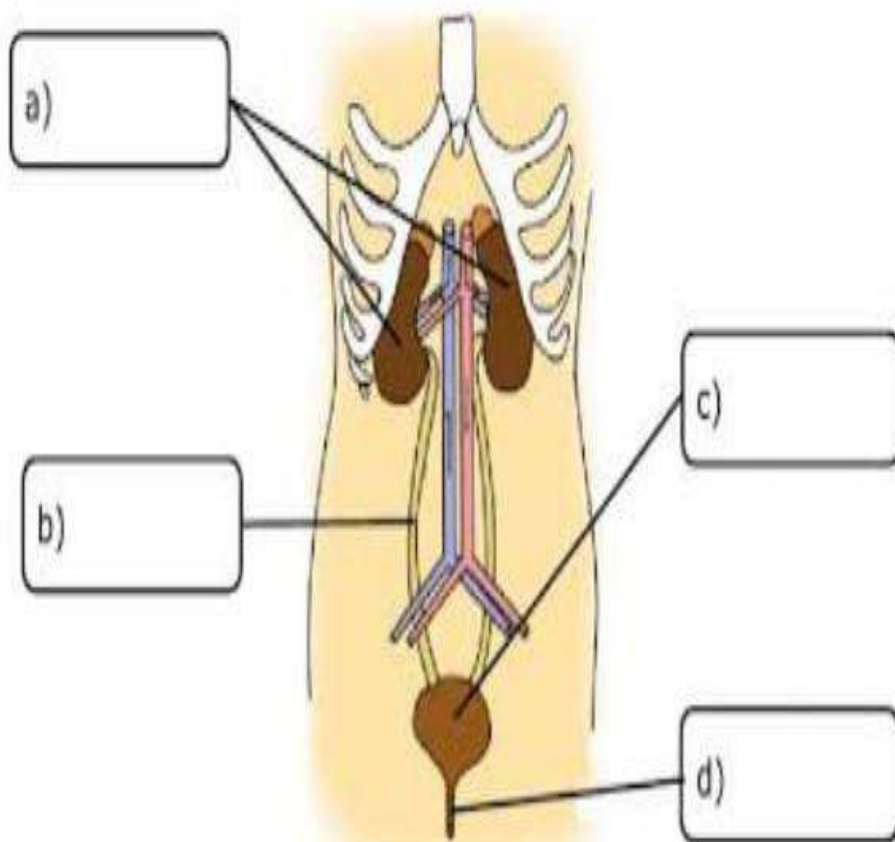
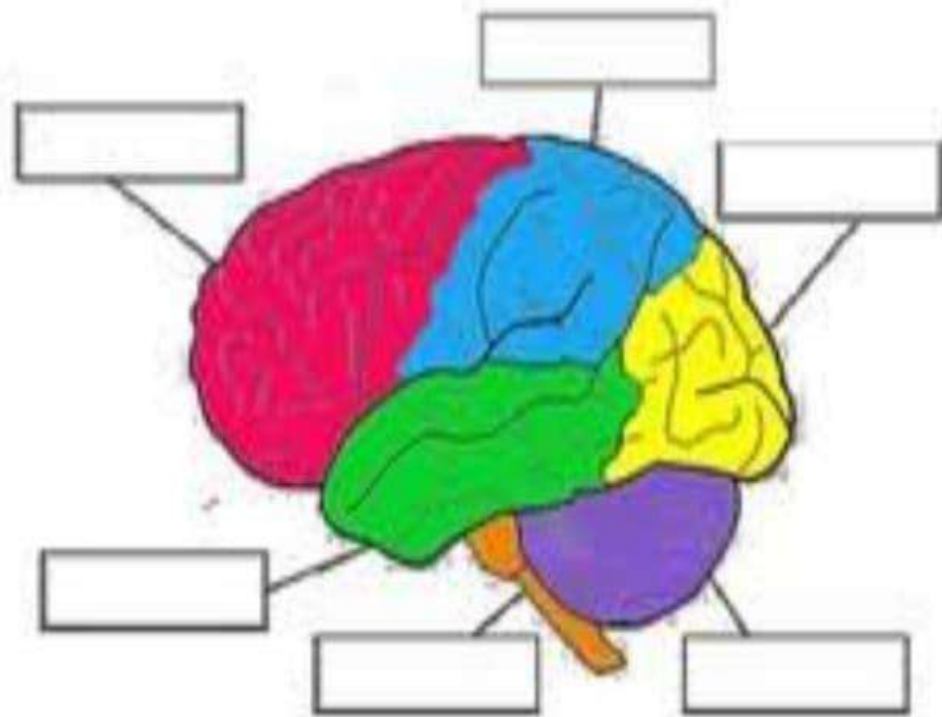
Lanthanide Series	57 La Lanthanum 138.905	58 Ce Cerium 140.12	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.24	61 Pm Promethium 144.913	62 Sm Samarium 150.36	63 Eu Europium 151.964	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.50	67 Ho Holmium 164.930	68 Er Erbium 167.255	69 Tm Thulium 168.930	70 Yb Ytterbium 173.054	71 Lu Lutetium 174.967
Actinide Series	89 Ac Actinium 227.033	90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium 237.048	94 Pu Plutonium 244.064	95 Am Americium 243.061	96 Cm Curium 247.070	97 Bk Berkelium 247.070	98 Cf Californium 251.080	99 Es Einsteinium 252.083	100 Fm Fermium 257.103	101 Md Mendelevium 258.106	102 No Nobelium 259.108	103 Lr Lawrencium 260.105

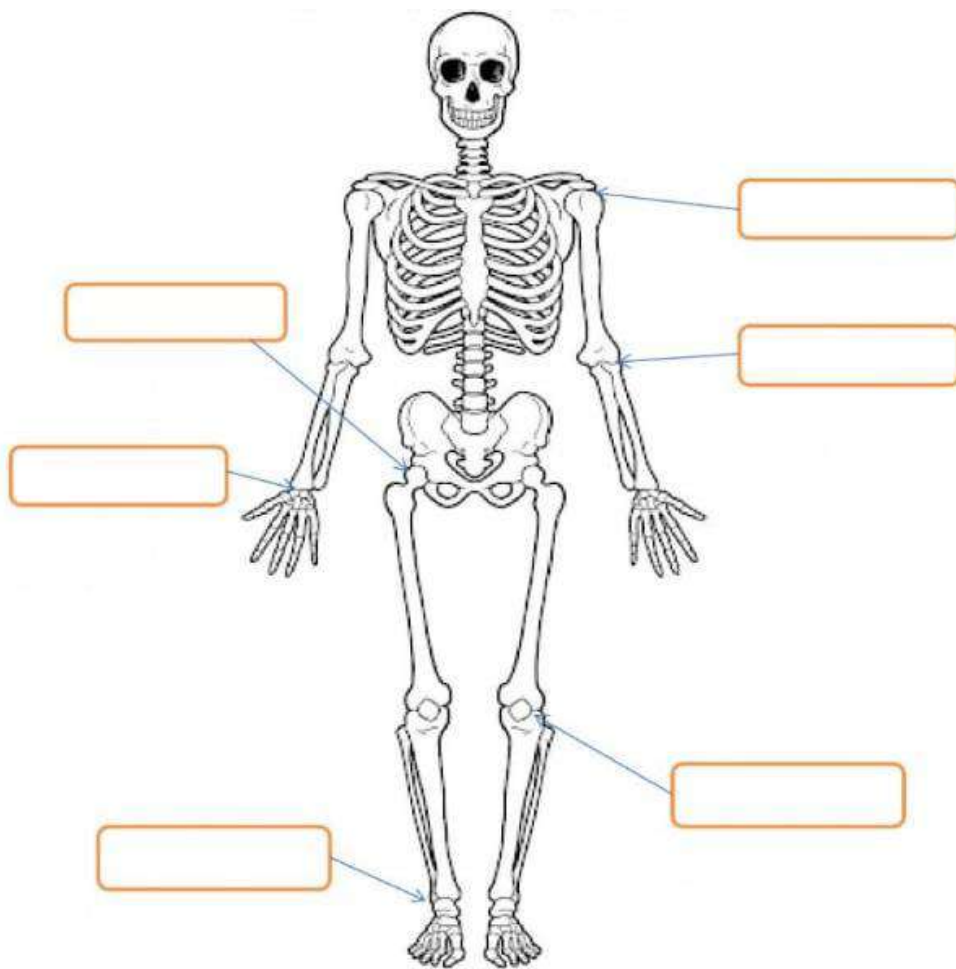
S.No	Element Names	Symbols
1)	Hydrogen	
2)	Lithium	
3)	Sodium	
4)	Potassium	
5)	Fluorine	
6)	Iron	
7)	Calcium	
8)	Copper	
9)	Zinc	
10)	Helium	
11)	Mercury	
12)	Carbon	
13)	Krypton	
14)	Aluminum	
15)	Magnesium	
16)	Nitrogen	
17)	Tin	
18)	Sulfur	
19)	Gold	
20)	Silver	

Q3: Label the diagram.



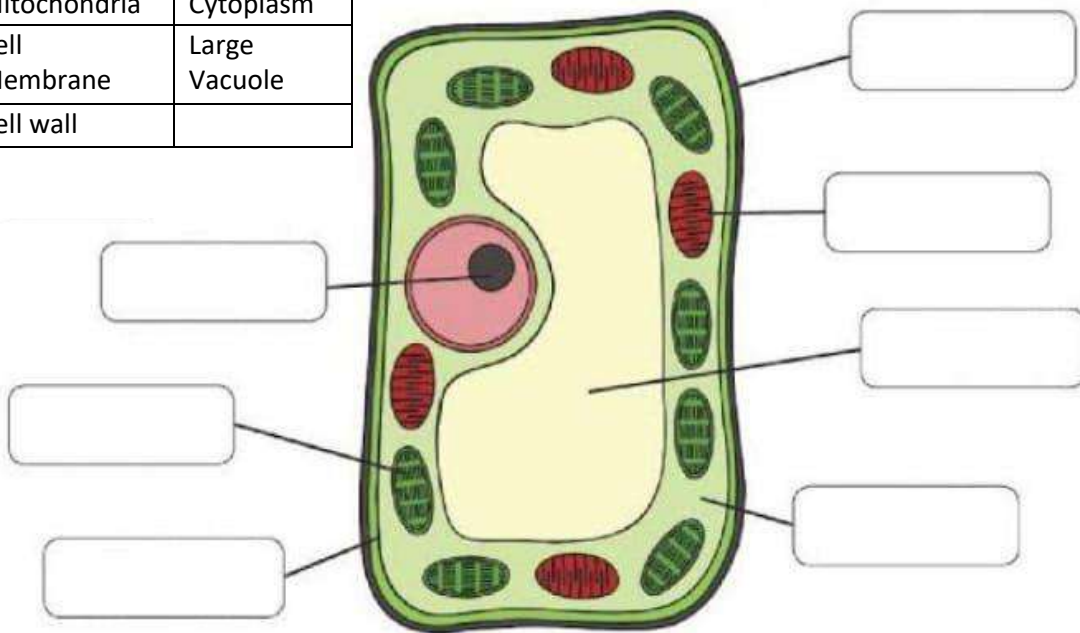
WORD BANK			
Rectum	large intestine	oesophagus	mouth
pancreas	small intestine	stomach	liver

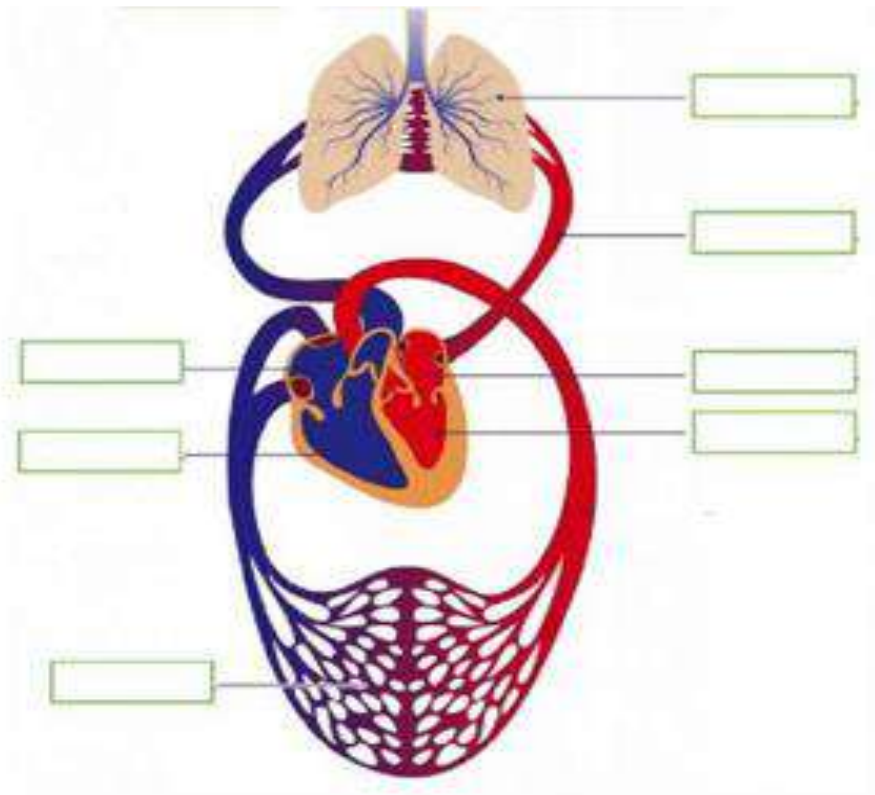




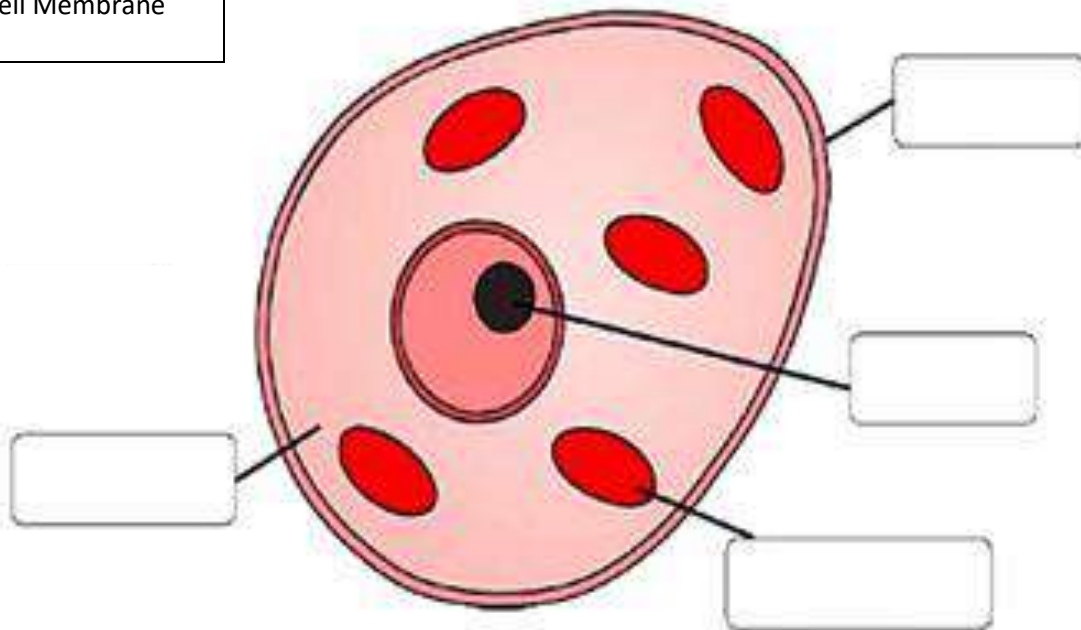
Chloroplast	Nucleus
Mitochondria	Cytoplasm
Cell Membrane	Large Vacuole
Cell wall	

### Plant Cell Diagram

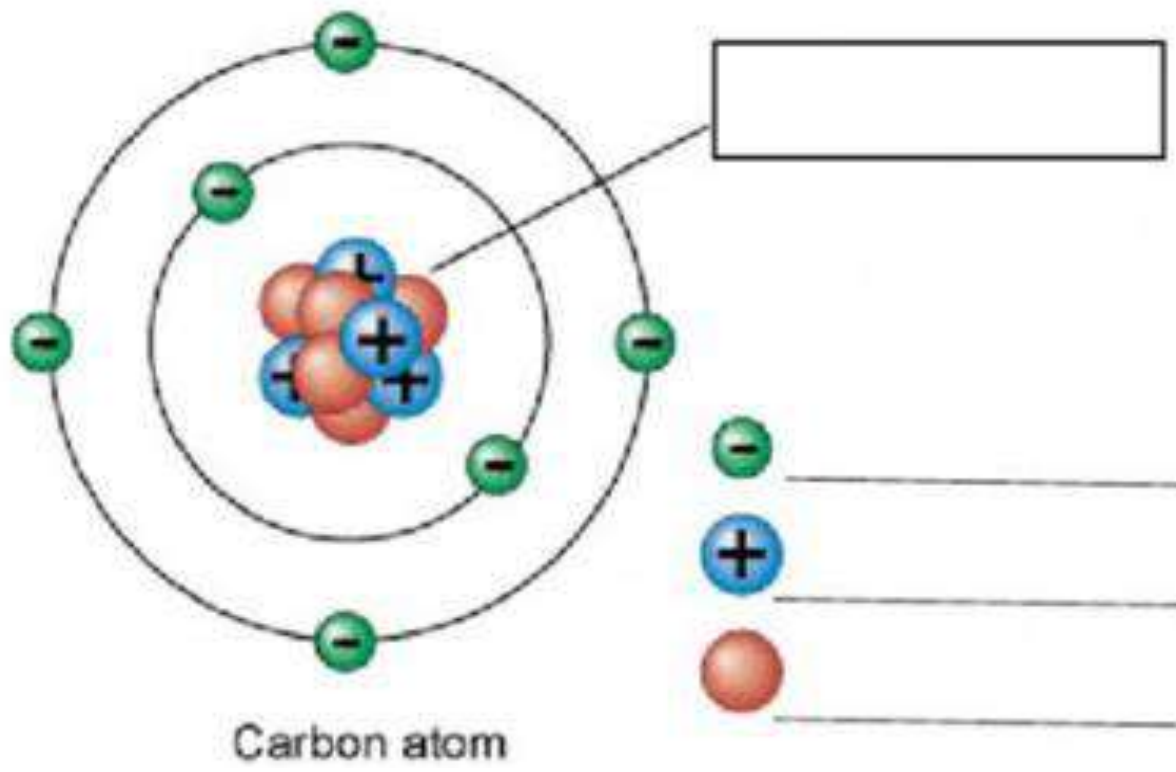




Nucleus
Mitochondria
Cytoplasm
Cell Membrane









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**SUMMER VACATION HOMEWORK TASK, 2022**  
**SUBJECT: SOCIAL STUDIES**  
**CLASS: VI**

Q1 Search about wonders of the world and write about any five you find wonderful, also paste their pictures.

Q2 Visit any museum or historical place and write about your feelings on seeing the old artefacts

Q3 Egypt is famous for its River Nile, Pyramids, Pharaoh, inventions and historical monuments. Search on the internet and briefly write in your own words about these all.

Q4 Cut the pieces of paper into the shapes resembling the 7 continents, join the pieces like a Jigsaw Puzzle.

You are amazed to see how pieces fit into one another the “Pangaea “(world map) is in your hands.

Ref Page (23) of Geography book.

**NOTE:** Q1 and Q4 will be done on the scrapbook.



## اے کیو خان سکول اینڈ کالج بحریہ ٹاؤن فیز ۸

موسم گرما کی تعطیلات کا کام

مضمون: اردو

جماعت: ششم

### پیراگراف لکھائی

- i. آپ عید کا دن کیسے گزارتے ہیں؟ ایک یا دو پیراگراف میں لکھیں۔
- شہری اور دیہی زندگی کے بارے میں آپ کیا جانتے ہیں اور آپ کو ان میں سے کون سی جگہ میں رہنا پسند ہے؟ دو پیراگراف میں لکھ کر بتائیں۔

### کہانی نویسی

- i. "احسان کا بدلہ احسان" کے موضوع پر ایک کہانی تحریر کریں۔
  - ii. "غرور کا سر نیچا" کے عنوان پر ایک سبق آموز کہانی لکھیں۔
- (کہانیوں میں مختلف محاورات کا استعمال بھی کیا جا سکتا ہے۔)

### خطوط نویسی

- i. اپنے دوست کے نام خط لکھ کر اسے اپنے بھائی کی سالگرہ میں آنے کی دعوت دیں۔
- ii. اپنے والد محترم کے نام خط لکھ کر انہیں اپنا ماہانہ جیب خرچ بھیجنے کو کہیں۔

### درخواست نویسی

- i. اپنے پرنسپل صاحب کے نام چھٹی کی درخواست بوجہ بیماری لکھیں۔
- ii. اپنے علاقے کے کونسلر کو اپنے علاقے میں پینے کے صاف پانی کی فراہمی کی درخواست لکھیں۔

### عملی کام

پاکستان کے صوبوں کی ثقافت پر ایک خوبصورت کتابچہ بنائیں۔

(کتابچے کی تیاری کے لیے اخبارات اور رسائل سے بھی مدد لی جا سکتی ہے۔)

### تخلیقی کام

- i. علامہ اقبال کے کلام سے اپنی پسند کے دس اشعار خوش خط کر کے لکھئے اور یاد بھی کیجئے۔
- ii. کالج میگزین کے لیے اپنی کوئی اچھی سی تحریر بھی لکھ کر لائیں تاکہ اسے میگزین کا حصہ بنایا جا سکے۔



**DR. A. Q. KHAN SCHOOL & COLLEGE, BAHRIA TOWN, PHASE-8, ISLAMABAD**  
**SUMMER VACATION HOMEWORK TASK, 2022**  
**SUBJECT: ENGLISH**  
**CLASS: VI**

Studies have shown that learning a language keeps the brain in good shape and enhances our cognitive skills and memory. The main four skills to learn a language are: **listening, speaking, reading and writing**. These four skills serve many purposes: they give learners support, opportunities to create, and contexts in which to use the language for exchange of real information, evidence of their ability and, most importantly confidence. Keeping in mind these skills, the summer task has been designed.

***LISTENING:***

Watching English movies has positive impact on improving listening skill as well as on speaking. Correct pronunciation is also enhanced by watching English movies. Watch a movie which has a fantasy element and a message and write what lesson you have learnt from it. You may select from:

- i. Harry Potter and the Philosopher's Stone
- ii. The Chronicles of Narnia: The Lion, the Witch and the Wardrobe
- iii. Charlie and the Chocolate Factory
- iv. The Swiss Family Robinson

***SPEAKING:***

Practice public speaking at least twice a week. Select for yourself very simple topics such as: family **life**, **hobbies, current situation, kindness** etc. First think and then speak. Develop a habit of thinking in English. Use internet to get information about art of public speaking.

***PRESENTATION:***

By doing presentations, students learn how to speak in front of a group. To polish their skills they are advised to make a power point presentation on '**Helping Others**'. Helping others is thought to be one of the ways that people create, maintain, and strengthen their social connections. For example, volunteering and helping others can help us feel a sense of belonging, make new friends, and connect with our communities.

***READING:***

Reading not only helps us to gain knowledge but also empowers us with the power of reasoning. To inculcate the habit of reading in students novels '*The Swiss Family Robinson*' by '*Johann David Wyss*' and '*Adventures of Huckleberry Finn*' by '*Mark Twain*' are suggested.

***WRITING:***

Writing skill equips students with communication and thinking skill. It fosters their abilities to explain and refine their ideas to others and their selves.

- i. Students will **write review** of any one of the suggested novel.
- ii. They will also give a suitable title to it.
- iii. They will write a description of the title page.  
(Reference Novel: The Swiss Family Robinson)
- iv. They will **write their own poem (4-6 lines)** about keeping their country clean.  
(Reference pg: 14 of text book)
- v. They will write about a person who inspires them and has achieved a lot in life.