



Summer Vacation Task – 2020

Class 9th

| Week | Chemistry | Pakistan Study | Biology | Maths |
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| 1 st | <p>Ch.1[fundamentals of chemistry]</p> <ul style="list-style-type: none">• Learn branches of chemistry• Basic definitions of chemistry: matter, elements, compound, mixture• Search examples of matter, elements, compound, mixture <p>Differentiate between compound and mixture.</p> | <p>(Reading, Written work)</p> <ul style="list-style-type: none">• Ch.1 : Ideological basis of Pakistan,• Meaning of ideology(page 1),shortQ#1• Kinds of ideology(page 1),ShortQ#2, Sources of ideology ,need and significance of ideology(page 2,3),longQ#1 | <ul style="list-style-type: none">• What is biology?• Define any five branches of biology.• Describe major divisions of Biology.• How biology is related to chemistry and physics? | <p>Do practice of Exercise 4.1, 4.2 and 4.3</p> |
| 2 nd | <ul style="list-style-type: none">• Learn about average atomic mass• Differentiate between ion and atom• Calculate the moles of 60g of CO₂• How many moles are there in 90g of water? | <p>(Reading, Written work)</p> <p>Foundation and Composition/elements of Pakistan ideology(page 3,4,5,6)longQ#2</p> | <ul style="list-style-type: none">• Define and• classify biomolecules.• Enlist the levels of biological organization.• Make 15 MCQs from chap 1. | <p>Do practice of Exercise : 4.4, 4.5 and 4.6</p> |
| 3 rd | <ul style="list-style-type: none">• Learn free radicle with Chlorine example.• Learn atomic number, mass number.• Write down the chemical formulas of some common compounds: baking soda, limestone, lime water, marsh gas, and magnesia. <p>Write down the Latin name of the following elements: mercury, tin, potassium, iron.</p> | <p>(Reading, Written work)</p> <ul style="list-style-type: none">• Equal rights of minorities in Islam,short• Q#4, Two nation theory(Evolution) shortQ#3 | <ul style="list-style-type: none">• Write down the names of steps of biological organization.• Describe the two types of Observation.• What are the characteristics of a good hypothesis? | <p>Do practice of Review Exercise and 20 MCQ's</p> |

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| <p>4th</p> | <ul style="list-style-type: none"> • What is the contribution of Al-Beruni and Jabbar Ibn Hayyan in field of Chemistry? • Search at least 4 Muslims' scientists contribution in field of Chemistry. <p>Make 30 mcqs from Chapter:1(Fundamental of Chemistry)</p> | <p>(Reading+ Written work)</p> <p>Evolution(Muslim League and Two nation theory)</p> <p>(shortQ#5,6)</p> | <ul style="list-style-type: none"> • How control group is different from an experimental group? • Who was A.F.A King? What were his observations? • Write in your own words the experiments performed by Ronald Ross • Make 15 MCQs from chap 2 | <p>Do practice of Exercise 5.1, 5.2, 5.3</p> |
| <p>5th</p> | <p>Ch.2.[structure of atom]</p> <ul style="list-style-type: none"> • Learn the main postulates of Dalton's atomic theory. • Learn Rutherford atomic model/discovery of nucleus. • Learn Neil Bohr's atomic theory. Link for help https://www.youtube.com/watch?v=1EdTw4I6L0U | <p>(Reading+ Written work)</p> <ul style="list-style-type: none"> • Nehru Report and its effects on the political thinking of Muslims(shortQ#7) Background of Lahore Resolution (shortQ#8) | <ul style="list-style-type: none"> • What is two kingdom system? • Differentiate between two kingdom and five kingdom systems of classification. • Write down the rules of Binomial Nomenclature. | <p>Do practice of Exercise 5.6, 5.7 and Review exercise</p> |
| <p>6th</p> | <ul style="list-style-type: none"> • Draw structure of fundamental particles of an atom. • Define shell and sub-shells. • K shell can accommodate how many electrons? | <p>(Reading+ Written work)</p> <p>The ideology of Pakistan in the light of the statements of Allama Iqbal and Quaid-e- Azam(longQ#4)</p> | <ul style="list-style-type: none"> • Define: Specie, Prion, Viroid, Biodiversity, Chitin, pseudopodia, Taxa, • Write down the causes and effects of deforestation. • Make 15 MCQs from chap 3. | <p>Do practice of Exercise 6.1, 6.2 , 6.3 and Revision</p> |

| Week | English | Physics |
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| 1 st | <p>Unit 1: Tolerance of Holy Prophet (SAW) Read and write the meanings of difficult words. Write the summary of lesson.</p> <p>Present Indefinite/Present continuous tense (translate 10 sentences - Urdu to English).</p> | <p>(chapter# 1 physical quantities and measurement)</p> <p>Introduction to physics and branches of physics (book reading) Link for help: https://youtu.be/-8TD1Uud2oA</p> <p>Written work: conceptual question 1 pg 27</p> <p>Contribution to physical science by Islamic world(book reading) Physical quantities and SI units</p> <p>Written work: Conceptual question 4 , 5 pg 27 Standard form / scientific notation (book reading) Link for help: https://youtu.be/mXIXM4OcTN4 Solve the followings</p> <p>Example 1.1,1.2,1.3 Assignment 1.1,1.2,1.3 Solve numerical question 3 , 5 page 28</p> |
| 2 nd | <p>Unit 2: Allama Iqbal</p> <p>Read and write the meanings of difficult words. Write the summary of lesson.</p> <p>Present perfect/Present perfect continuous tense(translate 10 sentences -Urdu to English).</p> | <p>Prefixes to power of ten (book reading) Solve numerical question 4 on page 28 Measuring instruments</p> <p>Meter rule, Vernier caliper, screw gauge, stops watch physical balance, measuring cylinder (book reading)</p> <p>Written work:</p> <p>Conceptual question #3,7,8 pg significant figures and its rules</p> <p>Link for help: https://youtu.be/zYWAq3S7jUc</p> |
| 3 rd | <p>Unit 3: Quaid- A great leader</p> <ul style="list-style-type: none"> •Read and write the meanings of difficult words. •Write the summary of lesson. •Past Indefinite/Past continuous tense (translate 10 sentences - Urdu to English) | <p>(Chapter #7 properties of matter)</p> <p>kinetic molecular model of matter and density (book reading)</p> <p>Link for help: https://youtu.be/QXoQbWoIiRE</p> <p>written work Example 7.1, Assignment 7.1 Pressure (Book reading)</p> <p>Written work:</p> <p>Conceptual question 3,2,6 (pg 195)</p> <p>Atmospheric pressure , measurement of atmospheric pressure (barometer)book reading</p> <p>Written work:</p> <p>conceptual question 1 ,7(pg 195)</p> |

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| 4 th | Unit 4: Madina Charter •Read and write the meanings of difficult words. •Write the summary of lesson. •Past perfect/Past perfect continuous tense(translate 10 sentences - Urdu to English) | Atmospheric pressure and weather and its application(book reading) Pascal principle and applications(book reading) Liquid pressure ,To prove $P = \rho gh$ Link https://youtu.be/O2aJB82vMO 8 Archimedes principle and buoyant force link for help: https://youtu.be/05WkCPORlj4 Written work: Conceptual question 5 pg 195 |
| 5 th | Unit 5: Two Bargains •Read and write the meanings of difficult words. •Write the summary •Future indefinite/Future continuous tense(translate 10 sentences - Urdu to English) | Elasticity Hooke's law Stress , strain and young's modulus Link for help: https://youtu.be/Brxt3RYKs_k Written work: Conceptual question 10 pg195 solve: Convert 1000centimeters into meters and millimeters Convert 50 kg into milligrams and grams |
| 6 th | Future perfect/Future Perfect continuous tense (translate 10 sentences from Urdu to English). 20 -20 Proverbs/Idioms | :(chapter #9 Transfer of heat) Conduction of heat(good conductor and bad conductors),its applications(book reading) Written work: Conceptual question 1, 3, 4, 5,8,9 pg 250 Convection of heat (practical applications of heat convection)(book reading) Written work: Conceptual question 6, 10 pg 250 |
| 7 th | 2 stories(Greed is Curse, Union is Strength) (1) Application for urgent piece of work (2)Application for sick leave | Radiations of heat Good and bad emitters and absorbers Green house effect Link for help: https://youtu.be/3wdDm2dBROU |



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| اُردو | اسلامیات |
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| <p>اخلاق نبوی ﷺ سے لے کر حج اکبر تک اسباق کے مشقی سوالات لکھیں اور یاد کریں۔</p> <p>حمد نعت اور میر تقی میر کی دو غزلوں کو خوب یاد کریں اور اشعار کی تشریحات اور مشقی سوالات کو کاپیوں میں خوشخط لکھیں۔</p> <p>کسی بھی ایک نثری سبق سے اپنی مرضی کی عبارت لے کر اس کا حوالہ متن، سیاق و سباق اور تشریح لکھیں۔</p> <p>گرائمر کا کام:</p> <p>جملے کی اجزائے ترکیبی کی تعریف لکھیں۔ مند۔ مند الیہ کی تعریف لکھیں مثالیں دیں۔</p> <p>جملہ اسمیہ اور جملہ فعلیہ کی تعریف مثالیں دے کر وضاحت کریں۔ مرکب ناقص اور مرکب تام کی تعریف کریں۔</p> <p>ذو معنی الفاظ سے کیا مراد ہے کوئی سے پانچ ذو معنی الفاظ لے کر اس طرح جملوں میں استعمال کریں کہ الفاظ کا مطلب واضح ہو جائے۔</p> <p>مجاورہ کی تعریف کریں۔</p> <p>حمد اور نعت کی تعریف کریں۔</p> <p>مطلع اور مقطع کی تعریف کریں</p> <p>اسم کی اقسام اور ان کی تعریف کریں</p> <p>بھائی کے نام نصیحت آموز خط لکھیں۔</p> <p>پرنسپل صاحب کے نام جرمانے معافی کی درخواست لکھیں۔</p> <p>دوست کو اپنے بھائی کی شادی پر دعوت دینے کے لیے خط لکھیں۔</p> <p>اپنے محلے کی صفائی کے لیے ناظم صاحب کو درخواست لکھیں۔</p> <p>پرنسپل صاحب کو کسی تاریخی مقام پر تفریحی دورے کے لیے درخواست لکھیں</p> <p>ڈاکٹر اور مریض کے درمیان مکالمہ لکھیں</p> <p>گاہک اور دکاندار کے درمیان مکالمہ لکھیں</p> <p>بہادر لڑکا۔ لالچ بری بلا ہے۔ غرور کا سر نیچا کے موضوعات پر کہانیاں لکھیں۔</p> <p>نصاب میں شامل تمام مصنفین اور شعراء پر جو تعارفی نوٹ تحریر کئے گئے ہیں وہ کتاب سے کاپی میں خوشخط لکھیں۔</p> | <ul style="list-style-type: none">• سورہ انفال کو ناظرے سے مکمل یاد کرنا۔• نماز جنازہ اور آخری دس سورتیں یاد کرنا۔• مسنون دعائیں یاد کرنا ہے۔• دس احادیث کی عربی کو یاد کرنا ہے۔ |