

**Pakistan International School, Qatar**  
**Summer Vacation Homework**  
**Class X Boys / Girls**

Subject	Home Work
English	<ul style="list-style-type: none"> <li>● <b>Assignment-I:</b> Write one essay on the following topic complying with the point mentioned below.  <b>Importance of English language in today's world</b> <ul style="list-style-type: none"> <li>▪ <i>Develop a proper outline of the essay</i></li> <li>▪ <i>Make an appropriate 'thesis statement'</i></li> <li>▪ <i>Use a variety of logical examples to support your thesis statement.</i></li> </ul> </li> <li>● <b>Assignment-II:</b> Watch the following <u>two documentaries</u>: World War-I, World War-II, and develop an assignment (Comparative Essay) <u>focusing the following</u>: <ul style="list-style-type: none"> <li>▪ Reasons that caused both wars</li> <li>▪ What devastation was caused with reference to deaths/casualties and infrastructure?</li> <li>▪ What do you think about the type of World War-III? (What damage it would cause?)</li> </ul> </li> <li>● Write a <u>review</u> of each documentary in your homework notebook.</li> <li>● (Try to be <b>creative</b> and share <b>specific information</b> for the readers.)</li> <li>● <b>NOTE:</b> Practice and learn all the work done in the class till 22 June, 2017.</li> <li>●</li> </ul>
Urdu	<p style="text-align: right;">✓ چھیوں میں دیکھے گئے تین پسندیدہ پاکستانی ٹی وی ڈراموں کی کہانی کا تنقیدی جائزہ لیں۔ موجودہ دور میں ڈرامے کس موضوع پر لکھے جا رہے ہیں؟ کیا یہ موضوع موجودہ زمانے کی ضرورت پوری کر رہا ہے؟ اس حوالے سے 500 الفاظ پر مشتمل مقالہ لکھیں۔</p> <p style="text-align: right;">✓ پڑھائے گئے تمام اسباق کا اعادہ۔</p> <p style="text-align: right;">✓ بورڈ کے تین سابقہ پرچے حل کر کے لانے ہیں۔ وہ مشقی سوالات جن کے اسباق ابھی تک نہیں پڑھائے گئے، وہ چھوڑے جاسکتے ہیں۔</p> <p style="text-align: right;">✓ ایک تاریخی / تفریحی مقام کی سیر، ایک میچ کا آنکھوں دیکھا حال اور یوم پاکستان کے موضوعات پر 250 الفاظ پر مشتمل مضامین لکھ کر لائیں۔</p>
Mathematics	<p><b>Project Base assignments:</b></p> <ul style="list-style-type: none"> <li>- Collect all formulae from Textbook of grade IX and search examples related to these formulae and their uses in everyday life. (You may use digital resources.)</li> </ul> <p><b>Course revision covered before summer vacation:</b></p> <p><b>Unit: 1</b> Quadratic Equation Ex 1.1- 1.4, <b>Unit: 2 Theory</b> of Quadratic Equation EX:2.1 –to- 2.8, <b>Unit: 3</b> Variation EX: 3.1-to-3.6</p>
General mathematics	<ul style="list-style-type: none"> <li>➤ Unit-1, Ex-1.1( Q-1 to Q-5 to Q-12 to Q-20) .Ex-1.3 , Ex-2.1 Unit-2, Ex-2.3, Ex-2.5 with example</li> <li>➤ E-4.1, Ex-4.2 (Q 4,5 ,7,9,15,16), Ex-4.4, Unit-6, Ex-6.1 to 6.4 <b>Assignment:</b> Solve MCQ'S of the last five years papers of Federal Board.</li> </ul>
Pak Studies	<ul style="list-style-type: none"> <li>● Prepare maximum short and objective type questions from the covered topics.</li> <li>● Did it prove beneficial for Pakistan to take part in Afghan War 1979, or not?</li> <li>● Thoroughly study/learn the covered topics.</li> </ul>
Chemistry	<ul style="list-style-type: none"> <li>● Write ten MCQ's in a separate notebook each from chapter 9 and 10 other than unit exercises.</li> <li>● Write the names of 10 fruit/vegetables which are acidic and 10 fruit/vegetable which are basic in nature.</li> </ul> <p><b>Project:</b>  Visit any shopping mall and write the uses of 20 chemicals used in different food items.</p>

<b>Physics</b>	<ul style="list-style-type: none"> <li>• Write ten MCQ's from each chapter i.e. 10, 11 &amp; 12 other than unit exercises.</li> <li>• Write answers of the conceptual questions of chapters 10, 11 &amp; 12 on a separate notebook.</li> <li>• Solve all numerical problems of chapters 10, 11 &amp; 12 on a separate notebook.</li> </ul> <p><b>Research project:</b> (a) Types of Telescope (b) Parts of Microscope and their functions</p> <ul style="list-style-type: none"> <li>• Your project should be an essay type or PowerPoint presentation</li> <li>• Visit the link (<a href="http://www.fbise.org.pk">www.fbise.org.pk</a>) to solve the past papers</li> <li>• Revise the whole syllabus covered up to summer vacation.</li> </ul>
<b>Biology</b>	<ol style="list-style-type: none"> <li>1. Write the definitions of "terms to know" from exercise of <b>Ch. 10, 11, 12 and 13</b> on notebook.</li> <li>2. Complete written work of <b>practical for grade X Biology</b> in practical journal.</li> <li>3. Complete a working model of lungs showing an action of diaphragm with the help of plastic bottle and balloon.</li> </ol> <p><b>Research Work: "Disorders of skeletal system."</b></p> <p>Using different internet resources collect information about the following:</p> <p><b>a.</b> Osteoporosis   <b>b.</b> Causes of osteoporosis   <b>c.</b> Symptoms of osteoporosis   <b>d.</b> Treatment of osteoporosis   <b>e.</b> Arthritis   <b>f.</b> Types of arthritis  <b>g.</b> Symptoms ,causes and treatment of osteo-arthritis</p> <p>Learn all the chapters completed before summer vacation.</p>
<b>General mathematics</b>	<ul style="list-style-type: none"> <li>➤ Unit-1,Ex-1.1( Q-1 to Q-5 to Q-12 to Q-20) .Ex-1.3 ,      Ex-2.1 Unit-2,Ex-2.3, Ex-2.5with example</li> <li>➤ E-4.1, Ex-4.2 (Q 4,5 ,7,9.15,16),Ex-4.4</li> <li>➤ Unit-6,Ex-6.1 to 6.4</li> </ul> <p><b>Assignment:</b> Solve MCQ'S of the last five years papers of Federal Board.</p>
<b>Economics</b>	<p><b>Project:</b> Search the data of per capita income of Pakistan for the last ten years and write 200 words commentary on it. Memorize chapter No. 2 and 8 and write the key terms in your notebooks.</p>
<b>Islamiyat</b>	<p>Search any five Verses from the Holy Qur'ān and Five Ahadith-e-Nabavi (ﷺ) with their references in the support of the each topic given below.</p> <p>i) Bodily Purification (جسمانی صفائی و طہارت)</p> <p>ii) Forbearance (صبر)</p> <p>iii) Gratitude (شکر)</p>
<b>Geography</b>	<ul style="list-style-type: none"> <li>• Justify the need of irrigation in Pakistan. Describe the modes of irrigation in the various parts of the country.</li> <li>• What factors are responsible for making agriculture the main occupation of the people of Pakistan?</li> <li>• Explain the importance of industrial development with special reference to a developing country.</li> <li>• What role do the cottage industries play in the economic development of Pakistan? What are the chief cottage industries and where are they located?</li> <li>• What importance is attached to air communication in the modern world? Where does Pakistan stand in this respect?</li> <li>• Why is it essential to earn the foreign exchange for the economic development of Pakistan? What steps are being taken by the government in this regard?</li> </ul>
<b>Civics</b>	<p>Prepare a comprehensive Research article on "Role of Important Personalities in the Pakistan Movement".</p> <p>SOURCE TO BE USED:</p> <ul style="list-style-type: none"> <li>• Inter net</li> <li>• Daily News Paper</li> <li>• Survey( make Questioners )</li> </ul>

**Compute  
Science**

**Project:** Develop a detailed synopsis report over number systems principally concentrating on Binary, Octal, Decimal and Hexa-Decimal Number System.

Your report should focus on the:

- Base and contents/elements of each number system
- Methods and procedures for converting each number system from and to another number system.
- Application and area of use of each number system.
- Which number system would you prefer for digital and which one for manual calculation.
- Convert first 500 Decimal numbers Binary, Octal and Hexa-decimal in a tabular form i.e.

Decimal	Binary	Octal	Hexa-Decimal
1	01	01	01
.	.	.	.
500	111110100	764	1F4

In the light of Binary, Octal and Hexa-Decimal Number systems; propose your own number system; select a logical name for your number system; research on the base and contents of your proposed number system; present mathematical Axioms for converting your proposed number system from & to Binary, Octal, Decimal and Hexa-Decimal Number System and vice versa. Learn and Prepare Lesson # 5, 6 and 9 from the covered syllabus.