



**DHAI EDUCATION SYSTEM**



# **Spring Break Homework**



**Senior Section**

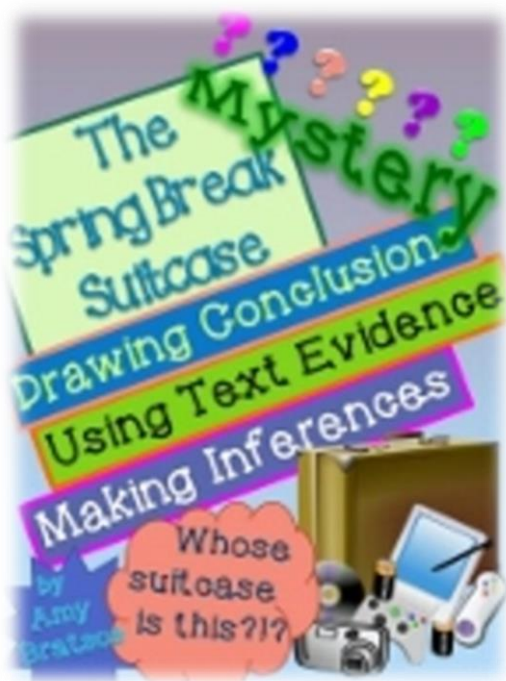
**Grade 8<sup>th</sup>**

**DHAI Education System**



## Table of Contents

Activity Log .....	3
Spring Break Tasks .....	5
Computer Science Resource Worksheets.....	8-11
<b>Note:</b> by Section Head: Ms. Seema Ghufra n	8







## Activity Log

Subject	Assignments	Date/ Day
ENGLISH		
URDU		
MATH		
CHEMISTRY / BUSINESS STUDIES		

<b>ISLAMIAT</b>		
<b>PAKISTAN STUDIES</b>		
<b>COMPUTER SCIENCE/BIOLOGY / ACCOUNTING</b>		
<b>PHYSICS/ ECONOMICS</b>		
<b>ARTS and DESIGN</b>		

## Spring Break Tasks

Subject	Tasks
English	<p>1. Write down the character sketches of: The Englishman Santiago The crystal shop owner</p> <p>2. Solve the comprehension, vocabulary and grammar exercises of Unit no.7 'For Better or Worse' Of OPG.</p>
Urdu	<p>1- سبق سیر لنڈے بازار کی، اور تحریک پاکستان میں طلبا کا کردار (مکمل پڑھائی کریں) اور تمام الفاظ معانی اور سوال جواب اردو اے کی نوٹ بک پر کریں۔</p> <p>2- معیاد دوم کے کرائے گئے تمام الفاظ معانی اور مشقی سوالات یاد کریں۔</p> <p>3- مندرجہ ذیل مضامین اردو بی کی نوٹ بک پر تحریر کریں۔</p> <p>* "کورونا" جیسی آفات سے کیسے نبرد آزما ہونا چاہیے۔</p> <p>اسکی شروعات کیسے ہوئی - یہ کیسے پھیلتا ہے۔ انسانی زندگی کو خطرات۔ اس سے بچاؤ کی احتیاطی تدابیر۔</p> <p>* قانون کا احترام قانون کیا ہے اور اسکی اہمیت۔ اسلامی حوالہ جات۔ جرائم میں کمی اور مسائل کا فوری حل۔ پر امن اور خوشحال معاشرہ ۔</p>

Math	Practice and solve exercise 11B on math notebooks, solve basic level of exercise 11C on notebooks, prepare a report on application of trigonometric ratios in real life.
Chemistry	Write down physical and chemical properties of group 1 elements in periodic table. Write down names and symbols of these elements too in copies.
Business Studies	<ul style="list-style-type: none"> <li>• Revise Chapter # 3 and do Activity # 3.5 given on page # 30 on the notebook.</li> <li>• Answer question # 2 given on page # 34 on loose sheets.</li> </ul>
Islamiyat	<p>Revise and Prepare whole topic of “Salat/ Prayers”.</p> <p>There will be a test of the topic “salat”after spring break</p>
Pakistan Studies	<p><b>HISTORY</b> Read the topics thorough from 1927 to 1940 and practice any five 14 marks questions from the given topics.</p> <p><b>Geography:</b> Practice all questions of Unit: 8 on topical unsolved.</p>
Computer Science	Solve the resource worksheets attached.
Biology	<ol style="list-style-type: none"> <li>1. Difference between chemical and mechanical digestion</li> <li>2. Absorption</li> </ol>



	<ol style="list-style-type: none"> <li>3. Function of small intestine and significance of villi</li> <li>4. Assimilation and role of liver in the metabolism of glucose and amino acids</li> <li>5. Role of liver in the breaking down of alcohol and other toxins</li> </ol> <p>Get worksheets of MCQ and theory of topic human nutrition from Save My Exams and solve them</p>
Arts and Design	Practice Painting Tints and Shades.
Physics	Revise Pressure, Liquiid Pressure and molecules
Economics	<p>Answer the following questions on notebook:</p> <p>Q1. Differentiate between direct and indirect taxes.</p> <p>Q2. State the advantages and disadvantages of direct taxes.</p> <p>Q3. State the advantages and disadvantages of indirect taxes.</p> <p>Q4. Define</p> <ol style="list-style-type: none"> <li>a). Hypothecated tax</li> <li>b). Import tariff</li> <li>c). Personal income tax</li> <li>d). Wealth tax</li> </ol>

**Computer Science Resource Worksheets**

**Q1)** Explain the difference between a wide area network (WAN) and a local area network (LAN).

.....  
.....  
.....  
.....

**(Hint:** You need to give *two* distinct points of comparison. Saying that one covers a large area and the other a local area is insufficient.)

1. a. State **three** pieces of hardware that are needed to create a LAN from a set of stand-alone computers.

1.....  
2.....  
3.....

b. Explain why the communication over a WAN differs from that across a LAN and state how the hardware necessary for communication would differ from that used in part (a)

.....  
.....  
.....  
.....

**Q2)** Explain the difference between:

a. simplex transmission of data   b. half-duplex transmission of data   c. duplex transmission of data  
giving an example of the use of each.

**(Hint:** Don't try to be imaginative – give the standard examples.)

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**Q3)** The following bytes of data are sent to a second device using even parity:

- 11001100
- 01000100
- 10101011
- 10011010

An automatic checking technique is used to check that the data has been transmitted without error.

a. State which byte has been received incorrectly, explaining how you arrived at your answer.

.....  
.....  
.....  
.....  
.....

b. Explain why it is possible that a byte of data could still be incorrect despite passing the test that you used in part (a).

.....  
.....  
.....

c. If the parity byte 10110101 had been transmitted with the data block, explain how the error could be self-checked and corrected.

.....  
 .....  
 .....  
 .....

**Q.4**

(a) Draw the logic circuit for the following logic statement:

$X = 1$  if [ A is NOT 1 AND B is 1 ] AND [ B is 1 OR C is 1 ]



[4]

(b) Complete the truth table for the above logic circuit.

A	B	C	Working space	X
0	0	0		
0	0	1		
0	1	0		
0	1	1		
1	0	0		
1	0	1		
1	1	0		
1	1	1		

[4]

## Q.5

(a) Give **two** reasons why a buffer is used in a printer.

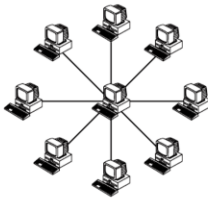
- 1 .....
- .....
- 2 .....
- ..... [2]

(b) Give **one** advantage of increasing the size of a buffer in a printer.

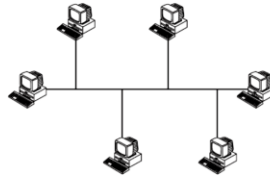
- .....
- ..... [1]

## Q.6

(a) Name the following network topologies:



Name: .....



Name: .....

[2]

(b) Give **one** advantage of having computers connected on a network.

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

(c) Give **one** disadvantage of having computers connected on a network.

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

Note:

by Section Head: Ms. Seema Ghufan

Dear Parents! Please Fill the above mentioned log of daily activity of your child and after holidays submit the homework as well as activity log to the class incharge.