

**St. Montfort School Patel Nagar, Bhopal**

**Summer Holiday Homework 2019-20**

**Class – IX**

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**ENGLISH HOLIDAY HOMEWORK**

- I. After a long vacation, your school is going to reopen in a couple of days. Write a diary entry describing your feelings about having to go to school in about 100 -120 words.
- II. Write an article in about 100 – 120 words expressing your views on the following topics:
  - i. The Deteriorating Values
  - ii. India – A Tourist’s Paradise
- III. Read the following chapters from the supplementary reader ‘Moments’ and write the question answers in your English notebook:
  - i. Ch 1 - The Lost Child
  - ii. Ch 2 - The Adventures of Toto
  - iii. Ch 3 - Iswaran The Storyteller

**NOTE: All the above mentioned tasks are to be done in the English notebook.**

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**ग्रीष्मावकाश गृहकार्य ( हिन्दी पाठ्यक्रम 'अ')**

**कक्षा – नवमी 2019**

प्रश्न 1 'दो बैलों की कथा' कहानी का सारांश लिखिए ।

प्रश्न 2 पाठ्यक्रम में शामिल प्रत्येक अलंकार का एक –एक उदाहरण याद करके लिखिए ।

प्रश्न 3 संवाद लिखिए –

1. पेन और पेन्सिल के बीच संवाद ।
  2. महिला और सब्जीवाले के बीच महुँगाई के सम्बंध में संवाद ।
  3. गर्मी की छुट्टियों का सदुपयोग करने के संबंध में दो मित्रों के बीच संवाद ।
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## Mathematics

Q1. Differentiate between rational numbers and irrational numbers with examples

Q2. Convert in the form of  $p/q$

1) 0.222..... 2) 6.3535..... 3) 3.756756.....

Q3. Represent on a number line

1)  $2/7$       2)  $-7/3$       3)  $\sqrt{8}$       4)  $\sqrt{17}$

Q4. Simplify

$$(81/16)^{-3/4} \times [(25/9)^{-3/2} \div (5/2)^{-3}]$$

Q5. Rationalize and find the value of a and b

$$\frac{4 + \sqrt{2}}{2 + \sqrt{2}} = a - b\sqrt{2}$$

Q6. Write in expanded form  $\left(\frac{1}{3x} - \frac{2}{5y}\right)^3$

Q7. If  $x^4 + (1/x)^4 = 47$  Find  $x^3 + \left(\frac{1}{x}\right)^3$

Q8. Factorize

1)  $27p^3 - \frac{1}{216} - \frac{9}{2}p^2 + \frac{1}{4}p$

2)  $X^4y^4 - xy$

Q9. Draw the graphs of  $y = x$  and  $y = -x$  in the same graph. Also find the coordinates of the points of the points where the two lines intersect.

Q10. Plot on a graph  $P(0,1)$   $Q(0,5)$  and  $R(3,4)$  and find the area of the triangle formed.

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# Social Science: List Of Map Items For Social Science

## Subject – History

**Chapter 1: The French Revolution:** Outline map of France (for locating and labeling/identification)

1. Bordeaux
2. Nantes
3. Paris
4. Marseilles

**Chapter 2: Socialism in Europe and the Russian Revolution:** Outline map of World (for locating and labeling/identification)

1. Major countries of First World War  
(Central Powers and Allied Powers)  
Central Powers – Germany, Austria-Hungary, Turkey (Ottoman Empire)  
Allied Powers – France, England, (Russia), America

**Chapter 3: Nazism and the Rise of Hitler:** Outline Map of World (for locating and labeling/identification)

1. Major countries of Second World War  
Axis Powers – Germany, Italy, Japan  
Allied Powers – UK, France, Former USSR, USA
2. Territories under German expansion (Nazi power)  
Austria, Poland, Czechoslovakia (only Slovakia shown in the map), Denmark, Lithuania, France, Belgium

## Subject – Geography

**Chapter 1: India – Size and location:** India-States with Capitals, Tropic of Cancer, Standard Meridian, Southernmost, Northernmost, Easternmost and Westernmost points of India (location and labeling)

### Chapter 2: Physical Features of India

1. Mountain Ranges: The Karakoram, The Zaskar, The Shivalik, The Aravali, The Vindhya, The Satpura, Western & Eastern Ghats
2. Mountain Peaks: K2, Kanchan Junga, Anai Mudi,
3. Plateau: Deccan Plateau, Chotta Nagpur Plateau, Malwa plateau
4. Coastal Plains: Konkan, Malabar, Coromandel & Northern Circar (location and labeling)

### Chapter 3: Drainage

1. Rivers : (identification only )  
(a) The Himalayan River Systems: The Indus, The Ganges, and The Satluj  
(b) The Peninsular Rivers: The Narmada, The Tapi, The Kaveri, The Krishna, The Godavari, The Mahanadi
2. Lakes: Wular, Pulicat, Sambhar, Chilika, Vembanad, Kolleru

### Chapter 4: Climate

1. Cities to Locate: Tiruvananthpuram, Chennai, Jodhpur, Bangalore, Mumbai, Kolkata, Leh, Shillong, Delhi, Nagpur (location and labeling)
2. Areas receiving rainfall less than 20 cm and over 400 cm (identification only)

### **Chapter 5: Natural Vegetation and Wild Life**

1. Vegetation Type: Tropical Evergreen Forest, Tropical Deciduous Forest, Thorn Forest, Montane Forests and Mangrove (for identification only)
2. National Parks: Corbett, Kaziranga, Ranthambor, Shivpuri, Kanha, Simlipal & Manas
3. Bird Sanctuaries: Bharatpur and Ranganthitto
4. Wild life Sanctuaries: Sariska, Mudumalai, Rajaji, Dachigam (location and labeling)

### **Chapter 6: Population (Location and Labelling)**

1. The states having the highest and lowest density of population
  2. The states having the highest and lowest sex ratio
  3. Largest and smallest state according to area
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## **Science**

### **PHYSICS**

#### **NCERT Book Chapter -8 , Back Exercise ( Page No. 112 - 113)**

#### Home Work

#### **Subject: Science (Chemistry)**

1. A diver is able to cut through water in a swimming pool. Which property of matter does this observation show?
2. Give reason:
  - a). A gas fills completely the vessel in which it is kept.
  - b). A gas exerts pressure on the walls of the container.
  - c). A wooden table should be called a solid.
3. For any substance, why does the temperature remain constant during the change of state.
4. What is the physical state of water of:
  - a). 25°C
  - b). 0°C
  - c). 100°C
5. Give two reasons to justify :-
  - a). Water at room temperature is a liquid.
  - b). An iron almirah is a solid at room temperature.
6. How does the water kept in an earthen pot (matka) become cool during summer?
7. Suggest a method to liquefy atmospheric gases.
8. Tabulate the difference in characteristics of states of matter. (any 4)
9. Why is ice at 273K more effective in cooling than water at room temperature?
10. What produces more severe burns, boiling water or steam?

#### **Subject : BIOLOGY**

**NOTE: Holidays home work is to be done in project file.**

Q1. Draw a well labeled diagram of the following-

E.R, G.A, Mitochondria, Chloroplast, plant cell, animal cell, Parenchyma, Collenchyma , Sclerenchyma, Striated muscles ,unstriated muscles, cardiac muscles.

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