

**APEEJAY SCHOOL, SAKET**  
**HOLIDAY HOMEWORK**  
**2019-20**  
**CLASS IX**

**ENGLISH**

1. Write an article on any two of the following topics given below in 200 words:

- Insufficient Parking Space In Delhi
- Stress Free Lifestyle
- How Science Has Changed Our Lifestyle
- Save Earth For A Better Today and Tomorrow

2. Using the hints/cues given below write a descriptive paragraph on the given topic

- **Future Schools vs Traditional schools**

**Hints-** Story 'The Fun They Had'-----year 2157----no separate buildings---no human teacher---no printed books-----e-books-----TV screen----mechanical teacher----slot to put homework-----no fun of old school----not same learning.

- **Bismillah Khan**

**Hints-**Bismillah learnt from uncle Ali Bux-----Vishnu temple in Benaras----Balaji and Maiya temples on Ganga-----favourite places for Bismillah-----selected for All India Radio(1938)--- -honour of playing shehnai on 15th August 1947---- 'Gunj Uthi Shehnai' film----songs famous----performed in USA, Canada etc.----fond of Benaras---symbol of India's composite culture----awarded Bharat Ratna in 2001.

3. Read books by the following authors and write book review of any two books of your choice:

- Roald Dahl
- Ruskin Bond
- R.K. Narayan
- Mulk Raj Anand
- Vikram Seth
- Charles Dickens
- O.Henry
- Anton Chekhov

\* **Note-** Illustrate with pictures. Use A4 size coloured sheet.

## हिंदी

(क) आप अपनी सहायक पुस्तक 'संचयन' की कहानी स्मृति पढ़कर उसका मूल भाव समझकर निम्नलिखित प्रश्नों के उत्तर दीजिए -

- 'कितने अच्छे थे वे दिन' ----इस पंक्ति में लेखक ने किन दिनों को अच्छा और क्यों कहा है ?
- स्मृति पाठ बाल - मनोविज्ञान की परत खोलता है | स्पष्ट करिए |
- लेखक का कुँ से पत्र निकालना प्रशंसनीय कार्य क्यों है ?
- लेखक ने इस पाठ में भ्रात-स्नेह के ताने बाने को चोट लगने की बात कही है |भाई के प्रति भाई के स्नेह का कोई अन्य उदाहरण प्रस्तुत करते हुए इस कथन का अर्थ स्पष्ट करिए |
- मनुष्य का अनुमान और भावी योजनाएं कभी -कभी मिथ्या और उल्टी निकलती हैं| इस पाठ के आधार पर स्पष्ट करिए |

(ख) जीवन सुखों की राह नहीं 'इस विषय पर पिता और पुत्र के बीच संवाद लिखिए |

नोट - समस्त कार्य हिंदी की कार्य पुस्तिका में करना है |

## संस्कृत

1.रचनात्मक कार्य के अन्तर्गत मञ्जूषा सहित किन्हीं दो चित्रों को लेकर 5-5 वाक्यों का निर्माण कीजिए |

2.अपठित अवबोधनम् के अन्तर्गत दो अपठित गद्यांशों को लेकर प्रश्नों के उत्तर कीजिए |

3.'कारक चिन्हों' को स्मरण कीजिए तथा प्रत्येक कारक चिन्ह का वाक्य में प्रयोग करते हुए दो-दो उदाहरणों को लिखिए |

नोट:- यह सभी कार्य A4 आकार की शीट पर कीजिये |

## FRENCH

1. Decrivez deux membres de votre famille.

2. Ecrivez une lettre à votre ami(e) lui invitant pour passer quelques jours de vacances chez vous.

3. Ecrivez quelques lignes sur "la beauté de France".

4. Apprenez les conjugaisons des verbes.

5. Completez les exercices grammaire de Setrite de chapitre 1,2 et 3.

## SCIENCE

### PHYSICS

Make a new homework notebook and do the following-

1. Do Q12 to Q18 from Science Exemplar from the chapter Motion.
2. Complete all NCERT Back questions from the chapter Motion.
3. Paste the solved worksheet on the topic.
4. Sir Isaac Newton has significant contribution in the field of Physics. Collect information about following aspects of his life and write it in your notebook.  
**a.** Early life/any interesting incident in his life, **b.** Inventions and **c.** Achievements.  
(Note: Write-up should not exceed 4 pages of the notebook.)

### CHEMISTRY

#### **A) Answer the following questions in your chemistry notebook:**

1. Which of the following is not matter:  
i) plants ii) smell of food iii) stars iv) particles of sand
2. From the given list prepare two separate lists one comprising of matter and other comprising of things which are not categorised as matter: Iodine, heat , bunch of rose, sound ,electricity, rock , feeling of happiness,river Ganga
3. Why cold is not a matter but cold drink is?
4. Which property of gases makes them suitable to used as convenient domestic fuel?
5. Which of the following will have strongest forces of attraction between its particles:  
Air, water, oxygen, Iron
6. Which of the following has both fixed shape and volume i) 1kg Milk ii) 1kg copper iii 1 kg nitrogen iv) 1 kg water
7. Which of the following object can be more compressed and why? Coal powder, chlorine, ice cream and milk.
8. Particles of copper do not diffuse why?
9. Convert the following temperature to kelvin:  
i) 57°C ii) 13° C iii) 100°C
10. Convert the following temperature to celsius:  
i) 773 K. ii) 333 K

#### **B) Complete your practical notebook.**

### BIOLOGY

- 1) Revise Lesson 1: The fundamental units of life for the unit test.

**Holiday homework to be done in a separate Biology File.**

- 2)**Activity 1:** Carry out the following osmosis experiment.

Take four peeled potato halves and scoop each one out to make potato cups. One of these potato cups should be made from a boiled potato. Put each potato cup in a

trough containing water. Now,  
(a) Keep cup A empty  
(b) Put one teaspoon sugar in cup B

(c) Put one teaspoon salt in cup C  
(d) Put one teaspoon sugar in the boiled potato cup D

Keep these for two hours. Then observe the four potato cups and answer the following.

- (i) Draw a table and write the change/ no change, observed in each cup.
- (ii) Explain why water gathers in the hollowed portion of B and C.
- (ii) Why is potato A necessary for this experiment?
- (iii) Explain why water does not gather in the hollowed out portions of A and D.

**Activity 2:** Take two slices of cucumber in two Petri dishes. In one, sprinkle salt and leave the other as such. Observe the difference in the surface of cucumber slices and amount of water released from both in the petri dishes after 10 minutes. Are the cucumber cells turgid or plasmolysed cell or de-plasmolysed cell. Draw a plant cell to show, before and after the salt was sprinkled.

**Activity 3:** Observe what happens to a plant when excess chemical fertilizer is added.

## MATHEMATICS

### **NCERT Exemplar:**

The following exercise questions to be done in a separate maths holiday homework file.

#### **1. Chapter 1,**

**Exercise 1.3 :** Q2(ii,iii) ,Q3( ii,vi, viii,ix) ,Q5, Q6(ii,iv) ,Q7, Q9( iii,vii,viii) , Q10( vii,viii,ix) Q11,Q12 ,Q14(ii,iv,vi).

**Exercise 1.4:** Q1,Q2,Q3,Q4,Q5

#### **2. Chapter 2:**

**Exercise 2.4:** Q8,Q11,Q14,Q16, Q19 to 32

**Exercise 2.5 :** Q2.Q3,Q5,Q7,Q8,Q9

**3.** Paste and solve the enrichment **worksheet given below** in your classwork notebook.

## **NCERT - MATHEMATICS**

### **CH-2 , POLYNOMIALS**

Q1. Without finding the cubes, factorise:  $(x - 2y)^3 + (2y - 3z)^3 + (3z - x)^3$ .

Q2. If both  $(x - 2)$  and  $(x - )$  are the factors of  $px^2 + 5x + r$ , show that  $p = r$

Q3. If  $x + 1/x = 5$ , find the value of  $x^4 + 1/x^4$

Q4. If  $(x + a)$  is a factor of the polynomials  $x^2 + px + q$  and  $x^2 + mx + n$  , prove that  $a =$

Q5. If  $f(x) = x^3 + 3x^2 - 2x + 4$  , find  $f(-2) + f(2) - f(0)$

Q6. If  $x + 2k$  is a factor of  $f(x) = x^5 - 4k^2 x^3 + 2x + 2k + 3$ , find the value of  $k$ .

Q7. If  $p + q + r =$  and  $p^2 + q^2 + r^2 = 16$ , find  $pq + rq + rp$

Q8. . If  $x + y + z = 9$  and  $x^2 + y^2 + z^2 = 35$ , find the value of  $x^3 + y^3 + z^3 - 3xyz$

Q9. Prove that :  $x^3 + y^3 + z^3 - 3xyz = (x + y + z)[(x - y)^2 + (y - z)^2 + (z - x)^2]$

Q10. . Factorise:

(i)  $8x^3 + y^3 + 27z^3 - 18xyz$

(ii)  $16x^2 - 50x + 5$

(iii)  $x^3 - 3x^2 - 9x - 5$

(iv)  $2x^4y + 54xy^4$

(v)  $p^3(q - r)^3 + q^3(r - p)^3 + r^3(p - q)^3$

## **SOCIAL SCIENCE**

To do a project on cyclone Fani .

1. What are natural disasters?

2. Mention different types of disasters.

3. In the month of May Cyclone Fani hit the coasts of Odisha and West Bengal. Prepare a report on the causes of its occurrence, damage caused by it in both the states. Mitigation measures taken by the govt,- Role of various local authorities and organizations like the Disaster Management Authorities, Relief, Rehabilitation and the Disaster Management Departments of the States,

Paste pictures of Cyclone Fani

The Project Report should be handwritten by the student .

## **COMPUTER**

Design a website using Kompozer/HTML/Frontpage on any one the following topics:

a) Artificial Intelligence

b) Social Networking

c) Water - a preserver of life

The website should consist of at least 6 pages with good formatting, aesthetics and technical aspects. E-mail your website with your name, class and section to school email-id [skool.saket.del@apj.edu](mailto:skool.saket.del@apj.edu)

## ART

1. Prepare one still life study.
2. Sketch five human figures using pencil shading.

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**HAPPY HOLIDAYS**