



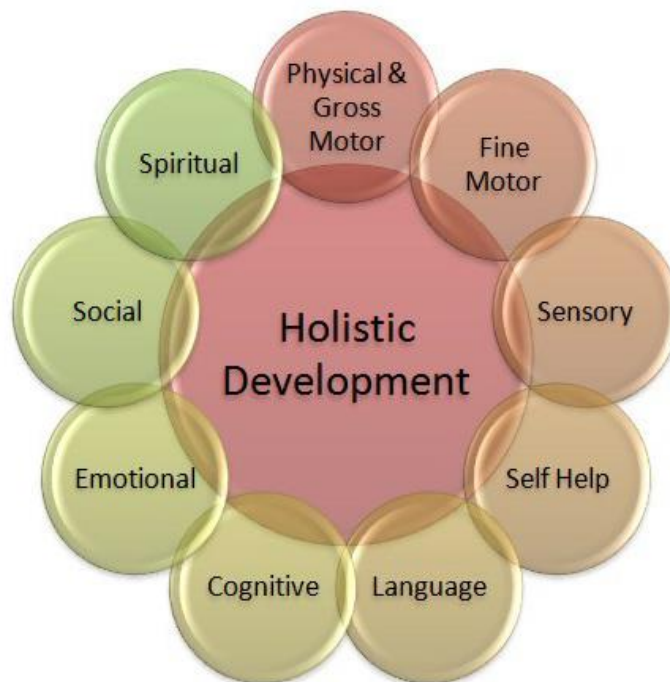
DPS KOCHAS & KIDS - ZONE

DEVELOPING MY SKILLS

SUMMER VACATION HOLIDAY HOMEWORK

SESSION : 2023 – 24

CLASS : 10



Dear Parents,

We wish you and your child a very happy summer holiday. It's time to enjoy and create a bond with family, friends and relatives. To utilize this time in the most constructive way we have prepared Holiday Homework for the students on the principle of "learning by doing" for his/her holistic development.

Kindly ensure that the holiday homework is completed by the students under the guidance of the parents.

Dear Children,

It's time for the summer vacation, and it is the time where we have fun with our family members. So we have designed some fun projects for your holidays that will help you learning with enjoyment along with your family.

REMEMBER

Neatness and presentation are common parameters for most of the activities assigned. Please maintain the quality of work done.

Complete and submit the holiday homework according to the dates given.

Note down these dates carefully as late submission after these dates is not acceptable and you will be losing the marks/grades for the same if you miss the date.

BE A WONDERFUL HUMAN BEING: KEEP IN MIND TO

- ✓ Follow a schedule during holidays. Be a good time manager.
- ✓ Read newspapers daily and stay updated with current affairs.
- ✓ Do the homework independently, only ask for assistance from your parents or guardians
- ✓ Give time to pursue your hobby.
- ✓ Appreciate nature and go for "Nature Walks", plant trees and spread the message of Nature Conservation"
- ✓ Remember to have a wide mouth container filled with water outside your house for the birds to get respite from the scorching heat.
- ✓ Be a helping hand to your parents and learn the skill of shared responsibility.
- ✓ Spend time with your parents and grandparents, their rich experience will help you overcome challenges with ease.
- ✓ Keep the home clean and mess free.
- ✓ Water the plants and rejoice the beauty of nature.

Hindi



निम्नलिखित दिए गए गृह कार्य को क्लास वर्क कॉपी में करें -

- 1) भ्रमरगीत के आधार पर बताईए की राज धर्म लोक धमिता को कैसे दर्शाता है ।
- 2) दूसरों की क्षमताओं को कम नहीं समझना चाहिए इस शीर्षक को ध्यान में रखते हुए एक हानी लिखिए ।
- 3) यूक्रेन और रूस के युद्ध का ऐ वर्तालाप तैयार करें ।
- 4) राम-चरित मानस की दो छंद आरै 10 चौपाई को सुन्दर आक्षरों में चार्ट पेपर पर लिखें ।
- 5) नगरपालिका या सरकार की कार्य भूमिका पर अपना विचार व्यक्त करें ।
- 6) प्रत्येक दिन की समाचार पत्रों से उच्चतम और न्यूनतम तापमान का सूचि बनाये ।
- 7) जयशंकर प्रसाद द्वारा रचित कामायनी के बारे में लिखें ।
- 8) अपना घर आज ही खरीदिए! और भुगतान 20 वर्ष में कीजिए पर एक विज्ञापन तैयार करें ।
- 9) पर्यावरण बचाओं विषय पर एक प्रोजेक्ट तैयार करें । तथा पाँच नोरे लिखें ।
- 10) स्वच्छ भारत अभियान विषय पर संकेत बिंदु के आधार पर अपना वर्णनात्म विचार दें ।
 - अभियान की शुरुआत
 - सफल बनाना
 - लक्ष्य
- 11) “ग्रीष्म ऋतु ” पर अनुच्छेद लिखें । (लेखन बिंदु) –
 - ऋतु की अवधि
 - प्राकृतिक परिवर्तन
 - खान – पान
 - फल – सब्जियाँ

- त्यौहार
- प्रभाव
- पसंद या ना पसंद

SCIENCE



Write the following homework in classwork copy.

1. Write and remember question answer of chapter life process, chemical reaction and equation and electricity.
2. Write and remember the name of at least 30 chemical compounds with their formula.
3. Draw the labelled diagram of following and write about it in A – 4 size paper and put in a stick file.
 - I. Stomata, leaves roll 1 to 10
 - II. Nutrition in Amoeba – Roll no 11 to 20
 - III. Human digestive system – Roll No 21 to 30
 - IV. Human respiratory system 31 to 40
 - V. Male reproductive system. 41 to 50
 - VI. Female reproductive system 51 to 56
4. Write 20 objective question from each of chapter electricity, life process and chemical reaction and equations.
5. Write all the reactions have you read in chemistry with the examples.
6. Two metallic wires A and B are connected in series. Wire A has length l and radius r , while wire B has length $2l$ and radius $2r$. Find the ratio of total resistance of series combination and resistance of wire A, if both the wires are of same material

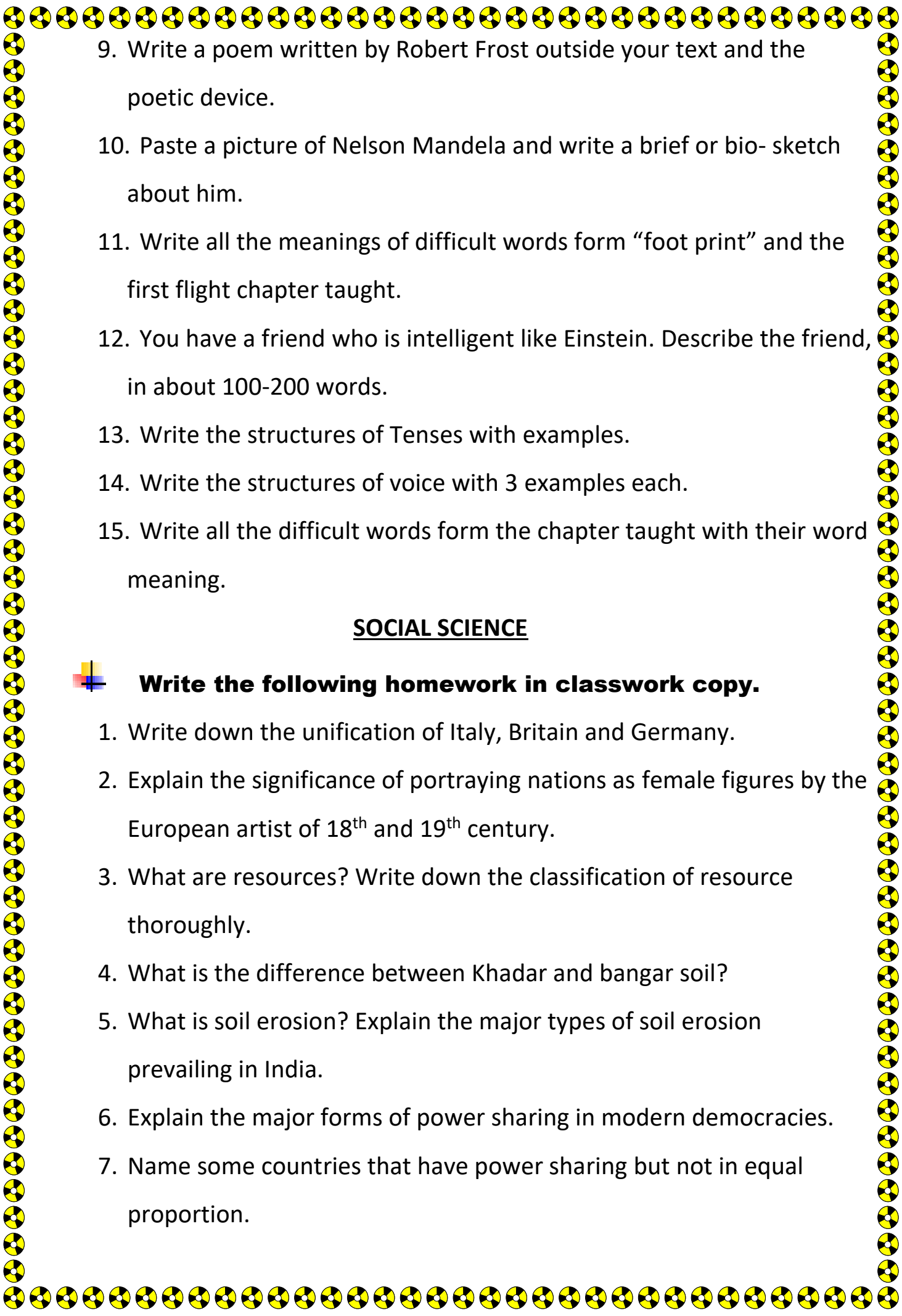
7. Derive the expression for series and parallel combination of resistors having resistances R_1 , R_2 and R_3
8. State and derive joule's law of heating.
9. A compound x is bitter in taste. It is a component of washing powder and reacts with dil. HCL to produce brisk effervescence to colourless, odourless gas y. Which turn lime water milky due to formation of z. when excess of CO_2 is passed milkiness disappears due to formation of P identify X,Y, Z and P.
10. How can you show that sunlight necessary for photosynthesis? Prepare a report on it. In stick file.
11. Om Rohit and Raju always remain in a hurry one day during lunch hour they all quickly gulped food and went out to play.
 - I. Om suddenly developed stomach ache while playing
 - II. What according to you might have gone wrong with him?

ENGLISH



Write the following homework in classwork copy.

1. Write "Read and find out" of L-1 The Triumph of surgery.
2. Write the summary of the story " A triumph of surgery".
3. Write the answers of "Think about it".
4. Write "Read and find out" of L-2 the thief's story.
5. Complete the questions "Think about it" L-2 thief's story.
6. Design a poster for your area how to save water during summer and when it is available in excess.
7. Write the summary of " A letter to god".
8. Find out the poetic device and literary device of the letter to god with examples.

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9. Write a poem written by Robert Frost outside your text and the poetic device.
 10. Paste a picture of Nelson Mandela and write a brief or bio- sketch about him.
 11. Write all the meanings of difficult words form “foot print” and the first flight chapter taught.
 12. You have a friend who is intelligent like Einstein. Describe the friend, in about 100-200 words.
 13. Write the structures of Tenses with examples.
 14. Write the structures of voice with 3 examples each.
 15. Write all the difficult words form the chapter taught with their word meaning.

SOCIAL SCIENCE



Write the following homework in classwork copy.

1. Write down the unification of Italy, Britain and Germany.
2. Explain the significance of portraying nations as female figures by the European artist of 18th and 19th century.
3. What are resources? Write down the classification of resource thoroughly.
4. What is the difference between Khadar and bangar soil?
5. What is soil erosion? Explain the major types of soil erosion prevailing in India.
6. Explain the major forms of power sharing in modern democracies.
7. Name some countries that have power sharing but not in equal proportion.

8. What is the main criterion used by the World Bank in classifying different countries?
9. Prepare a project work on sustainable development. (A4 size paper)
10. Make a table for category of people along with their goals/aspirations.
11. Show in your project work the adverse conditions of the tribals where dams are constructed.
12. Draw the symbols and write their significance in A4 size.
13. Write the daily events related to national, international date wise in your copy.
14. In the physical map of India label the types of soil found in India.

MATHS

 **Solve or Do the all the following homework in classwork copy**

1. If α and β are the zeros of the quadratic polynomial $f(x) = x^2 - x - 2$ find a polynomial where zeros are $(2\alpha - 1)$ & $(2\beta - 1)$.
2. If α, β are zeros of $x^2 + px + 1$, α^1, β^1 are the zeros of $x^2 + qx + 1$ prove that $(\alpha - \beta^1)(\beta - \alpha^1) = q^2 - p^2$
3. If α and β are zeros of $x^2 - p(x+1) - c$, show that $(\alpha + 1)(\beta + 1) = 1 - c$
hence prove that $\frac{\alpha^2 + 2\alpha + 1}{\beta^2 + 2\alpha + c} + \frac{\beta^2 + 2\beta + 1}{\beta^2 + 2\beta + c} = 1$
4. If α and β are zero of the polynomial $2x^2 - 4x + 5$, then find the value of
(i) $\alpha^2 + \beta^2$ (ii) $\frac{1}{\alpha} + \frac{1}{\beta}$ (iii) $(\alpha - \beta)^2$ (iv) $\frac{1}{\alpha^2} + \frac{1}{\beta^2}$ (v) $\alpha^3 + \beta^3$
5. Show that there is no positive integer "n" for which $\sqrt{n-1} - \sqrt{x+1}$ is rational.
6. A father's age is three times the sum of the ages of his two children.
After 5 years his age will be two times the sum of their ages. Find the

Present age of the father.

7. Find the value of "a" and "b" if the following pair of linear equations has infinite number of solutions.

$$3x - (a + 1)y = 2b - 1$$

$$5x + (1 - 2a)y = 3b$$

8. The LCM & HCF of two rational nos. are equal, then the nos. must be.

(a) Prime (b) Co-prime (c) Composite (d) Equal

9. The roots of the equation $ax^2 + bx + c = 0$ will be reciprocal of each other if.

(a) $a=b$ (b) $b=c$ (c) $c=a$ (d) none

10. On increasing the diameter of a circle by 40% its area will be increased by

a. 40% b. 80% c. 96% d. 82%

11. On decreasing the radius of a circle by 30% its area is decreased by

a. 30% b. 60% c. 45% d. 51%

12. Practice and solve each exercise of A.P either from R.S. Aggarwal and NCERT.

13. Practice and solve each exercise of triangle each from R.S Aggarwal and NCERT.

14. Write and remember all the definitions and theorem of Chapter-1,2,3,4 and circle triangle.

15. Compare the education of Bihar board and cbse board make a comment and differentiate in 200 words.

16. What is the importance of mathematics in your life?

17. Give some suggest for the development of study.

18. Write the name of all important common train their routes, fare, timing etc. as well as write a short notes of happy journey of train.
19. Comment on education minister of Bihar.

Computer



Write the following homework in classwork copy.

1. What is networking? Explain each type of Networking.
2. Write few lines on “Arpanet” and ‘Super computer’.
3. What is addressing? Explain each type of addressing.
4. Define the following :-
 - a. MAC Address
 - b. IPv4
 - c. IPv6
5. Draw or paste the picture of all Topology in chart paper and explain about it.

Important Pointers for Holiday homework

- Holiday Homework needs to be done in neat handwriting.
- Activities should be presented beautifully with excellent creativity.
- Holiday Homework is mandatory to be done by all the students and It is submit in school on 14th & 15th June – 2023, after this school is not responsible for that.
- गृह कार्य विद्यालय में जमा करने का निर्धारित समय दिनांक 14/6/2023 एवं 15/6/2023 तक रखा गया है इसके बाद गृह कार्य जमा नहीं किया जाएगा जिसके जिम्मेदार आप स्वयं होंगे।

