

Name : \_\_\_\_\_

# The Ideal New Star English School

## Varanasi

### Homework for Summer Holidays

Session : 2024-25

Class – IX

Kids, the much awaited holidays are here and it's time to play and have fun!! We have planned some work for you to make the optimum use of your energy and give a vent to your creativity so that you continue learning during the holidays.

- ❖ Parents are requested to encourage their ward to do the homework independently.
- ❖ They can help the child if he/she needs help.
- ❖ Creativity and originality of the work will be appreciated.
- ❖ Complete the homework of each subject in a thin notebook, separate report file, stick file or scrapbook as per requirement of the subject and the activity.

### Subject - English

Answer the following questions.

1. Write summary of the 'The Lost Child' from Moments.
2. Define 'Determiners' and kinds of determiners with example.
3. Write central ideal the poem of 'The Road not Taken from Beehive.
4. Write a diary entry in 120 words. Describe a moment when you felt overwhelmed or stressed today in school how did you cope with these feelings and what did you learn from the experience?

### हिन्दी

निर्देश- समस्त प्रश्न अनिवार्य है।

1. 'दो बैलों की कथा' पाठ के आधार पर किसी अन्य जानवरों की शिक्षाप्रद कहानी लिखिए।
2. 'इस जल प्रलय' पाठ में जब बाढ़ आती है तो कुछ लोग लूडो, ताश आदि खेलों को किसी ऐसी ऊँचाई वाले जगह ले जाकर खेलते हैं और समय व्यतीत करते हैं। आप भी एक इनडोर बोर्ड गेम बनाइए।
3. कबीर दास का चित्र बनाते हुए उनके पाँच दोहे लिखिए।
4. नवयुग व्याकरण से पेज 67 के प्रश्न 1 व 2 कीजिए (उपसर्ग व मूल शब्द अलग करो)।

### Mathematics

1. Express the following decimals in the form  $\frac{p}{q}$   
(i)  $0.\bar{6}$  (ii)  $0.\bar{35}$  (iii)  $0.\bar{585}$  (iv)  $0.3\bar{2}$  (v)  $0.12\bar{3}$
2. Represent the following on number line –  
(i)  $\sqrt{2}$  (ii)  $\sqrt{3}$  (iii)  $\sqrt{5}$  (iv)  $\sqrt{3.5}$  (v)  $\sqrt{9.4}$
3. Find the value of  $x$  in each of the following:  
(i)  $2^{5x} \div 2^x = \sqrt[5]{2^{20}}$  (ii)  $(2^3)^4 = (2^2)^x$  (iii)  $\left(\frac{3}{5}\right)^x \left(\frac{5}{3}\right)^{2x} = \frac{125}{27}$   
(iv)  $5^{2x+3} = 1$  (v)  $5^{x-2} \times 3^{2x-3} = 135$
4. Find the values of  $a$  and  $b$  in each of the following:  
(i)  $\frac{\sqrt{3}-1}{\sqrt{3}+1} = a + b\sqrt{3}$  (ii)  $\frac{4+\sqrt{2}}{2+\sqrt{2}} = a - \sqrt{b}$  (iii)  $\frac{5+3\sqrt{3}}{7+4\sqrt{3}} = a + b\sqrt{3}$   
(iv)  $\frac{4+3\sqrt{5}}{4-3\sqrt{5}} = a + b\sqrt{5}$  (v)  $\frac{\sqrt{11}-\sqrt{7}}{\sqrt{11}+\sqrt{7}} = a - b\sqrt{77}$
5. Solve Exercise 2.4 (New NCERT / Exercise 2.5 (Old NCERT) of Mathematics text book.

## Science

### General Instruction:

- **Make a separate thin notebook for holiday homework.**
  - **Use thermocol or chart paper wherever required.**
1. How is heating of sugar different from heating of ammonium chloride?
  2. What does BEC stand for?
  3. What is common in different states of matter?
  4. Write 6 differences between solid, liquid & gas?
  5. Give reasons:
    - (i) Sponge is a solid, yet we are able to compress it.
    - (ii) Sugar when kept in Jar of different shapes adopts the shape of jar, yet we call it solid.
  6. Convert the following Kelvin temperature into degree Celsius scale?
    - (a) 173 K
    - (b) 273 K
    - (c) 400 K
  7. Convert the following Celsius temperature into Kelvin temperature.
    - (a)  $-73^{\circ}C$
    - (b)  $-23^{\circ}C$
    - (c)  $100^{\circ}C$
  8. Describe these:
    - (a) Sublimation
    - (b) Diffusion
    - (c) Plasma
    - (d) Brownian motion
    - (e) Effect of pressure on state of matter
  9. Give reason:
    - (a) The water kept in earthen pot (matka) remain cool?
    - (b) Smell of perfume is spread all over the room?
    - (c) If we put spirit or acetone in our palm feel cold.
    - (d) Gases fill their container completely?
    - (e) An iron almirah is solid to be solid?
  10. What is cell theory?
  11. Differentiate between:
    - (a) Prokaryotic and Eukaryotic cell
    - (b) Plasma membrane and cell wall
    - (c) Plant cell and animal cell
  12. Draw a well labelled diagram of plant cell or animal cell on chart paper or thermocol?
  13. Name Ten Scientists, write down their achievements & work (Paste photographs if possible).
  14. Paste 5 plant leaves (dried) and name them?
  15. Write difference between distance and displacement.
  16. A train covers the distance from station X to Y with speed 40 km/h and return back from Y to X with speed 60 km/h. Calculate the average speed of train in entire journey. Also find the displacement of entire journey.
  17. Define the following:
    - (i) speed
    - (ii) displacement
    - (iii) velocity
  18. Write the difference between speed and velocity.

## Social Science

1. Write a detailed story of the "French-Revolution" in your own words.
2. What are the main causes of the French Revolution?
3. Draw a political map of India on the chart paper with states and their capital name.
4. "Democracy is better than other forms of government because it allows us to correct its own mistakes." Do you agree with it or not?
5. What is the strategic significance of India?

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