



# DELHI PUBLIC SCHOOL GAYA

(Under the aegis of the Delhi Public School Society, New Delhi)  
Affiliated to C.B.S.E, New Delhi Affiliation No.330530, School Code – 65572

## WINTER VACATION ASSIGNMENT CLASS-VII (SESSION: 2024-25)

Your Winter Vacation assignment has some very interesting tasks that will make your learning session fun and engaging. So, let's start!

### ENGLISH

- State whether the following sentences are in active or passive voice:
  - Everyone clapped for the performer.
  - The thief was caught.
  - Please open the door.
  - Will you complete the work?
  - Harry will be awarded for his contribution to the Gryffindor House.
- Create a chart that includes three different types of adverbs, providing examples and demonstrating how they can be used in sentences. Use your creativity to make it visually appealing and engaging!
- Watch the movie Charlie and the Chocolate Factory and list five observations you made about Willy Wonka.

### हिन्दी

- शीतावकाश में घूमने जाने वाली किसी एक जगह का सचित्र वर्णन कीजिए।
- चार्ट-पेपर पर 1 से 100 तक हिंदी गिनती लिखिए।
- 10 उपसर्ग एवं 10 प्रत्यय लगाकर तीन-तीन शब्द असाइनमेंट कॉपी में लिखिए।
- दिल्ली पब्लिक स्कूल का एक मॉडल तैयार कीजिए।

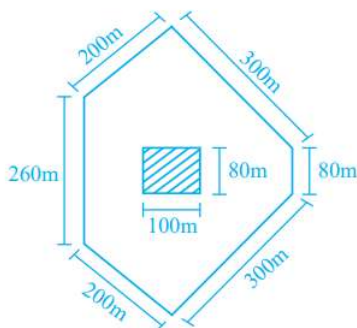
### SANSKRIT

तत्, एतत्, किम्, अस्मद् और युष्मद् शब्दरूप सभी लिंगों में लिखें।

\*\*गृहकार्य- पुस्तिका में (Assignment copy) कार्य करें।

### MATHEMATICS

- The perimeter of a regular pentagon is 1540cm. How long is its each side?
- What is the length of outer boundary of the park shown in Figure? What will be the total cost of fencing it at the rate of Rs 20 per metre? There is a rectangular flower bed in the center of the park. Find the cost of manuring the flower bed at the rate of Rs 50 per square metre.



3. The perimeter of a square garden is 48m. A small flower bed covers 18sqm area inside this garden. What is the area of the garden that is not covered by the flower bed? What fractional part of the garden is covered by flower bed? Find the ratio of the area covered by the flower bed and the remaining area.
4. Draw all the diagonals of a hexagon ABCDEF and name them.
5. A tree is broken at a height of 6m from the ground and its top touches the ground at a distance of 8m from the base of the tree. Find the original height of the tree.
6. Make a project on Area and Perimeter of two dimensional shapes.

**For reference click the given link:** <https://youtu.be/qzKqZBCAtfc?feature=shared>

## SCIENCE

1. Make a working model of an electromagnet with an iron nail, insulated copper wire and a battery.
2. Draw a labelled diagram of papaya flower and state its type.
3. A farmer, Mr. Sharma, observed that certain plants in his field were growing faster and producing identical offspring without the need for seeds. Upon closer inspection, he found that these plants were propagating through parts like roots, stems, and leaves. He decided to experiment with potato tubers, ginger rhizomes, and Bryophyllum leaves to see how they reproduced:
  - (a) What type of reproduction is being observed by Mr. Sharma in his field?
  - (b) Explain how potato tubers and ginger rhizomes reproduce.
  - (c) How does Bryophyllum reproduce through its leaves?
  - (d) Mention two advantages of asexual reproduction in plants for farmers like Mr. Sharma.
4. Rahul noticed that during the winter, his room heater became very warm and emitted a faint glow when switched on. He also observed that his mother used an electric iron to press clothes, which became hot after being plugged in. Intrigued, Rahul decided to explore the effects of electric current. He connected a simple circuit using a battery, a nichrome wire, a bulb, and a switch. He observed the following:
  - (a) The nichrome wire became red-hot after a while.
  - (b) The bulb in the circuit glowed brightly.
  - (c) When he brought a compass near the circuit, the needle deflected.
    - (i) Explain why the nichrome wire became red-hot when the electric current passed through it.
    - (ii) What causes the bulb to glow in Rahul's circuit?
    - (iii) Why did the compass needle deflect when placed near the circuit?
    - (iv) Mention one application of the heating effect and one application of the magnetic effect of electric current in daily life.
5. Write five uses of spherical mirrors.

## SOCIAL SCIENCE

1. Discusses the reasons for the rise and decline of Mughal Empire.
2. Talk to your elders and find out the ways media has changed over a period of time. Paste some pictures related to your idea.
3. On an outline map of India demarcate the following rivers.
  - (a) Ganga
  - (b) Gandak
  - (c) Brahmaputra
  - (d) Yamuna
  - (e) Godavari
  - (f) Indus
4. Draw a diagram Depicting Desert life. (Use pencil and colour of your choice to draw)
5. **NOTE PROSPECTIVE SOCIAL SCIENCE EXHIBITION:** Prepare models and exhibit related to the following topics and share the status/progress once the school reopens after the winter vacation.
  - History of transportation
  - Water Conservation
  - Cultural diversity of India

## INFORMATION AND COMMUNICATIONS TECHNOLOGY

1. Select the correct statement:
  - (a) Each Excel workbook contain multiple worksheets.
  - (b) Each Excel worksheet contain multiple Workbooks.
  - (c) Each Excel worksheet contain infinite rows and columns.
  - (d) All of the above.
2. In Excel there are \_\_\_\_\_ rows and \_\_\_\_\_ columns.
  - (a) 10,48,576 16,386
  - (b) 10,48,576 18,636
  - (c) 10,38,576 16,386
  - (d) None of these.
3. It is predefined, and helps to perform calculations:
  - (a) Formula
  - (b) Function
  - (c) Feature
  - (d) Option
4. It is compulsory to add before the beginning of the formula:
  - (a) Formula
  - (b) Feature
  - (c) Array
  - (d) All of these
5. Mention any 5 functions of Excel along with suitable examples.
6. Differentiate between Auto Fill and Flash Fill feature in Excel.

## GERMAN

**Task 1:** Create a menu for a German restaurant with popular dishes (e.g., Bratwurst, Sauerkraut). Include descriptions in German and prices in Euros.

**Task 2:** Compile 20-30 common German words with their meanings, pronunciations, and illustrations.