



## MATER DEI SCHOOL

### CLASS IX HOLIDAY HOMEWORK

SUBJECT	HOMEWORK
<b>English</b>	<p>Q1) You are Anuja Pratham who owns a bookshop at Gurugram, Haryana. Write a letter to the Sales Manager of Big Book Bazar, Daryaganj, New Delhi, placing an order for 15 copies of <i>Animal Farm</i>, 10 copies of <i>The Alchemist</i> and 5 copies of <i>Flight Without Formulae</i>.</p> <p>Q2) Work out pg no. 14, 22 and 26 in the workbook.</p> <p>Q3) Write down any 20 idioms with their meanings.</p> <p>Q4) Choose any one of the authors mentioned below and prepare a book review of 200 words on any of his/her literary work.</p> <p>(i) Katherine Mansfield (ii) Vaikom Muhammad Basheer (iii) Isaac Asimov (iv) Anton Chekhov</p> <p>Q5) Read the newspaper daily.</p>
<b>Hindi</b>	<p>ग्रीष्मावकाश गृहकार्य, 2019-20 हिंदी, IX नोट: गृहकार्य व्याकरण कॉपी में कीजिए।</p> <p>[क] पत्र-लेखन: 1. समग्र नियोजन (समग्र कीवचन) का परामर्श (सलाह) देते हुए छोटी बहन को पत्र लिखिए। 2. छोटे भाई को परीक्षा में प्रथम आने पर बधाई पत्र लिखिए।</p> <p>[ख] संवाद-लेखन 1. प्रदूषण की समस्या पर चिंता प्रकट करते हुए आकाश और नितिन के बीच संवाद लिखिए। 2. रेल में यात्रा करते हुए दो यात्रियों के बीच महंगाई की समस्या को लेकर संवाद लिखिए।</p> <p>[ग] उपसर्ग तथा मूलशब्द लिखिए: (व्याकरण पुस्तक) Pg. 73, 75 दुख का आधिकार, मिल्लू, इवरेस्ट मेरी शिखर यात्रा— पाठों पर आधारित।</p>

## Maths

### A. Do the assignment given below in your assignment notebook. Do write the questions alongwith the solutions.

Q1. The sides of a triangle are 8 cm , 15 cm and 17 cm. Find the area.

[ Ans :  $60 \text{ cm}^2$  ]

Q2. Two sides of a triangle are 13 cm and 14 cm and its semi-perimeter is 18 cm. Find the third side of this triangle. Also, find its area.

[ Ans : 9 cm,  $18\sqrt{10} \text{ cm}^2$  ]

Q3. The sides of triangle are 100 m, 120 m and 140 m. Find its area. (Use  $\sqrt{6} = 2.45$ )

[ Ans :  $5880 \text{ m}^2$  ]

Q4. The perimeter of a triangular garden is 900 cm and its sides are in the ratio 3 : 5 : 4. Using Heron's formula, find the area of triangular garden.

[ Ans :  $3.375 \text{ m}^2$  ]

Q5. The base of an isosceles triangle is 10 cm and one of its equal sides is 13 cm. Find its area using Heron's formula.

[ Ans :  $60 \text{ cm}^2$  ]

Q6. Find the perimeter of an isosceles right-angled triangle having an area of  $5000 \text{ m}^2$ . (Use  $\sqrt{2} = 1.41$ )

[ Ans : 341 m ]

Q7. Find the half of the perimeter of an equilateral triangle whose area is  $4\sqrt{3} \text{ cm}^2$ .

[ Ans : 6 cm ]

Q8. An advertisement board is in the form of an equilateral triangle of perimeter 240 cm. Find the area of the board using Heron's formula. (Use  $\sqrt{3} = 1.73$ )

[ Ans :  $2768 \text{ cm}^2$  ]

Q9. The edges of a triangular board are 6 cm , 8 cm and 10 cm. Find the cost of painting it at Rs. 0.09 per  $\text{cm}^2$ .

[ Ans : Rs 2.16 ]

Q10. Find the area of an equilateral triangle with side  $2\sqrt{3} \text{ cm}$ .

[ Ans :  $3\sqrt{3} \text{ cm}^2$  ]

### B. Summer Project ( The Wheel of Thedorus )

- **The wheel of Thedorus** is named after the Greek philosopher **Thedorus of Cyrene** who is known for his contribution of irrational numbers.
- To construct the wheel of Thedorus, start by locating the centre of an A-4 size sheet or an ivory sheet. This will be the starting point for the construction of your wheel. Take a line segment of length 1 inch from the starting point parallel to the bottom of the sheet. Construct a square root spiral starting from this line. ( Refer to NCERT, Exercise 1.2, Activity given in the question 4)
- Decorate it in the way you want.
- Your work will be assessed on the basis of punctuality, accuracy and creativity.

INSTRUCTIONS-

1. Do it on A4 size sheets with one cover page.
  2. Stapel all sheets together and submit in a folder.
  3. Date of submission is 1.07.2019
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**Science**

1. Obtain formulae of the following using criss-cross method:

- |                         |                           |
|-------------------------|---------------------------|
| a) Zinc Nitrate         | k) Manganese dioxide      |
| b) Calcium carbonate    | l) Sodium flouride        |
| c) Potassium hydroxide  | m) Barium chloride        |
| d) Sodium carbonate     | n) Potassium Dichromate   |
| e) Aluminium oxide      | o) Lithium phosphate      |
| f) Barium hydroxide     | p) Nitrous acid           |
| g) Carbon tetrachloride | q) Iron(III) carbonate    |
| h) Magnesium phosphate  | r) Lead(IV) iodide        |
| i) Calcium nitrate      | s) Potassium permanganate |
| j) Sodium iodide        | t) Silicon dioxide        |

2. Collect information with respect to causes, consequences and prevention of the following:-

- a) Air pollution
- b) Water pollution
- c) Ozone depletion
- d) Global warming

Support your answers with 3 pictures each.

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<b>Social Studies</b>	<p>Project on Disaster Management- Topic –Cyclone</p> <p>Sub topics- Definition, Case Study on Cyclone “FANI”-</p> <p>a)Introduction</p> <p>b)Pre Disaster Preparedness</p> <p>c)Areas affected (Odisha)</p> <p>d) Post Disaster Mitigation</p> <p>e) Conclusion</p> <p>Project should be hand written in A4 size Folder.</p>
<b>Computer</b>	<p><b><u>Instructions</u></b></p> <ul style="list-style-type: none"><li>• Report to be made on A4 size sheet.(10-12 pages)</li><li>• Name, Roll No and Class to be mentioned on the cover page of report.</li><li>• Report to be submitted in a file with transparent cover.</li></ul> <p>Summary Report on- “<b>Computer Components</b>”</p>