JYOTI PUBLIC SCHOOL DHORKA
Holiday Homework Class-IX (2018-19)

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☆ English ☆

***Being it is the suitable time to think and improve all your skills ----
- Read English newspaper daily.
- Do 30 pages of hand writing.

***To develop your knowledge & skills in English language ----
- Select any 3 stories &1 poem from your book.
- Read each story carefully and analyze.
- Prepare a booklet of each story & poem. Your booklet should contain---
    ☆Summary of Plot   ☆Character & Characterisation
    ☆ Setting   ☆Language
    ☆Figurative language ☆Themes
                (Annotations, quotes and citation)
    ☆At least 15 effective words & expressions.

☆ ☆ हिन्दी ☆ ☆

1. मुहावरो का प्रयोग करते हुए दो व्यक्तियों के बीच किसी भी विषय को आधार बनाते हुए संवाद लिखिए ।

2. दिए गए विषयो में से किसी एक विषय पर चित्र सहित पाँच दोहे लिखिए ।

    ① नैतिक शिक्षा   ② मधुर वाणी

3. ए-4 शीट पर छह अलग-अलग ऐसे चित्र चिपकाओ जिससे कहानी पूरी हो ।

4. स्वस्थ रहने के संतुलित आहार सचित्र चार्ट तैयार कीजिए ।

5. प्रेमचंद की कोई एक उपन्यास पढ़कर उसकी समीक्षा लिखिए ।

6. हिन्दी समाचार पत्रो को पढ़कर निम्नलिखित कार्य कीजिए ।

    अनुस्वार , अनुनासिक , अर्धचन्द्राकार , व नुक्ता युक्त 15-15 शब्द छाँटकर नोटबुक में लिखो ।
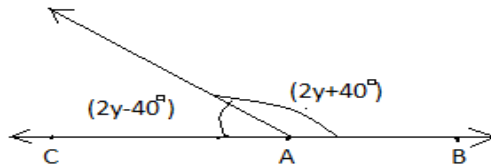
Maths

1.(i)Collect the data of pollution condition in Delhi and Mumbai .
   (ii)Compare the information and represent the data on a bar graph
   (iii) Analyse the condition and give a brief measure to control the present pollution causes.
       [Roll no 1 to 8]

2. (i) Search 10 new mathematical symbols from Internet, books, magazines   etc .
    (ii) Collect information about their origin, meaning and their use in different areas of mathematics
       [Roll no- 9 to 17]

3. (i) What is number line ? Mention the importance of numbers line in mathematics.
   (ii) Construct a square root spiral on number line.
       [Roll no- 18 to 25]

4. Revise Unit Test -2 syllabus, which will be conduct in July.
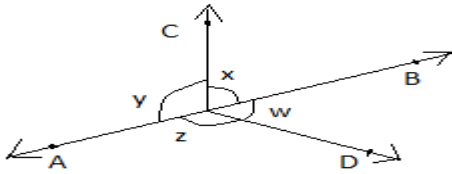
5. **Solve the given assignment**.

Assignment:-

Q1.Find the remainder when $4x^2 - 12x^2 + 14x - 3$ is divided by the $2x - 1$.

Q2. The polynomial $p(x) = Kx^3 + 15x^2 + 9x - 40$ when divided by $(x + 4)$ leaves a remainder -28 find the value of K.

Q3. Factorize :-   (i) $4a^2 + 12ab + 9b^2$ (ii)) $9x^2 + 24xy + 16y^2$ (iii)) $x^2 - 4y^2$

Q4. Verify:- $x^3 + y^3 + z^3 - 3xyz = \frac{1}{2}(x + y + x)[(x - y)^2 + (y - z)^2 + (z - x^2)]$

Q5. If $x - 2y = 11$ and $xy = 8$ find the value of $x^3 - 8y^3$.

Q6. Without actually calculating the cubes find the value of $(0.2)^3 - (0.3)^3 + (0.1)^3$

Q7. Write $(3a - 2b)^3$ in expanded form.

Q8. If $a + b + c = 9$ and $ab + bc + ca = 26$ find $a^2 + b^2 + c^2$.

Q9. An angle is$(\frac{1}{5})^{th}$ of its complement. Find the angles.

Q10. The angles of a triangle are in the ratio 2:3:4. Find the angles of the triangle .

Q11. Prove that , the sum of all angles of a triangle is 180° .

Q12. If the bisector of the angles of a ΔABC meet at a point ,then show that $\angle BOC=90^o+\frac{1}{2} \angle A$.

Q13. In the given figure BAC is a line . Find the 'y' .

Q14. In the given figure if $x + y = w + z$ the prove that AOB is a Line .

Q15. If two lines intersect, prove that the vertically opposite angles are equal.

Science

1. Learn Lesson -1 from each section of science (Physics , Chemistry & Biology)
2. You must have heard about genetically modified (GM) food .Find out about the nutritional value of GM food .
   Make a report stating both the advantage & disadvantage of GM food .
3. **Do the following activity :-**
   Pour a little water in a small transparent bottle and add a drop of milk to it. Trap smoke from an incense
   stick in the upper part of the bottle . Now immediately with the help of a laser torch let a thin beam of light
   fall at an acute angle on the surface of the water .
   Note down your observations and also give reason for your answer.
   Write down the role of milk and smoke in this activity.
4. Students will prepare a diagram which is to be made on chart paper on the allotted topics :-
   (i) Environment   Roll No-   1 to 5
   (ii) Nuclear Power Plants   Roll No-   6 to 10
   (iii) Plants Cell   Roll No-   11 to 15
   (iv) Animal Cell   Roll No-   16 to 20
   (v) Save Earth   Roll No-   21 to 25

Social Studies

● Learn Question/Answer of chapter -2 (Geography) and chapter -2 (Economics) complete.
● **Project Work:-**
   => Prepare a Project file on 'Disaster Management'
   =>Project sheets should not be exceed more than 15 pages .
   =>**All the given details must be included in your Projec**t:--
      ● Cover page (School Name, Topic, Student's Detail)
      ● Content
      ● Acknowledgement
      ● Meaning of Disaster & Disaster Management
      ● Types of Disaster
      ● Causes
      ● One Case Study (in brief)
      ●Prevention & Management
      ● Conclusion
      ● Bibliography

Note:-   ** While making this project ,you can use colors , pictures, pens, Diagrams, flow charts etc . And you must write about each topic
            **Your Project Work should be very neat, creative, and presentable.
⇔ This Project work will help you to extend your knowledge on Disaster Management.

Kindly note: Few assignments that is part of holiday homework are available online on our school website i.e. www.jyotipublicschool.com

We wish our students a great vacation!!

Yours fondly
Class Teacher