DELHI PUBLIC SCHOOL ALIGARH
CLASS-IX
HOLIDAY HOME WORK-2023-24

Dear students,

This summer vacation let the waves hit your feel, and the sand be your seal. Summer vacation is always meant for fun, frolic and rejuvenation. However, it also means enhancing our skills, becoming more polished and productive at the same time. To ensure we are keeping ourselves creative and innovative, and not just intelligent, our team of teachers have created some mind-blowing activities for you to enjoy and learn from!

Please read through the instructions carefully before completing the tasks.

Wishing you a vacation full of tanning, memories and creative vigor!

Happy holidays!

SUBJECT-ENGLISH

1. END IT WITH A LAUGH!

Read any one book from the list given below carefully and you will notice it has a very tragic ending. The idea is to make it comical so that the readers go ROFL! Write the comical ending in 500- words.

You can choose any one of the following books:

1. As Bright As Heaven- Susan Meissner
2. The Hate you Give- Angie Thomas
3. Frankenstein- Mary Shelley

Present your essay in a creative and innovative way which is also visually appealing.

Bring this report for submission in the first week of July.

2. CREATE YOUR AD!

We don't always pay much attention to advertisements, but I'm sure there are a few ads that grab our attention like a Baskin Robbins ice-cream! The idea is to make your own AD in the most creative and mind-boggling way!

Shoot a video, include a voiceover, add people and their opinions if you like, and include slogans, catch phrases and details to advertise any of the following products/ spread awareness on any of the issues mentioned below. Your advertisement video should NOT be more than 3 mins. It should be in English without subtitles, and the voiceover must include the student as one of the main speakers.

Products for the AD:

Cookies, school bag, face wash, laptop, shoes

Social issues for the AD:

COVID and its impact, climate change, equality in classroom, water conservation

Choose any one topic from the list above and make your AD. The title (given for products) are not copyrighted. **The AD must be mailed to your respective teachers on the below mentioned ID by June 30, 2023**

  IXA: jyotisharma@dpsaligarh.org   **IXB: smita@dpsaligarh.org**

SUBJECT-HINDI

निर्देश : संपूर्ण गृहकार्य को परियोजना फाइल (Project File) में ही हल करें।

प्रश्न—1. आपने भगवाना की माँ जैसी किसी स्त्री को मज़दूरी करते अवश्य देखा होगा। तो उस स्त्री का फोटो लगाकर उसके प्रति आपके हृदय में उमड़ने वाली भावनाओं को लगभग 150 शब्दों में लिखिए।

प्रश्न—2. स्पर्श पुस्तक में दिए गए रहीम के दोहों को सस्वर एवं लयात्कता के साथ गाते हुए अपना वीडियो बनाएँ तथा कक्षा 9 अ के विद्यार्थी kbrsharma20@gmail.com आई डी पर और कक्षा 9 ब के विद्यार्थी tempnibha@gmail.com आई डी पर भेजें।

प्रश्न—3. ग्रीष्मावकाश में आप जहाँ भी घूमने जाएँ वहाँ के आकर्षक चित्र चस्पाकर 5 दिनों के यात्रा वृतांत को लगभग 150 शब्दों में लिखिए।

प्रश्न—4. ग्रीष्मावकाश में प्रतिदिन कोई भी हिंदी समाचार पत्र पढ़िए तथा किसी एक विशेष राष्ट्रीय समाचार को काटकर पेज पर चस्पाइए फिर उसे अपने शब्दों में संपादित (Edit) करके लिखिए।

SUBJECT-URDU

Select any one contemporary topic of Social or Educational importance. Collect pictures related to that topic from Urdu/ English/Hindi newspaper and from Urdu Magazine also (Mahnama Umang, Bachcho ki Duniya- latest issue) and prepare a **Scrap Book**. And also prepare a report on the same topic. (300 words limit)

OR

Prepare a Chart Paper which will be decorated and write ISM (Noun) aur uski qismien & Sifat (Adjective) aur uski qismien.

SUBJECT-SANSKRIT

1- हिन्दी समाचार पत्र या किसी घटना से सम्बन्धित कोई भी दो चित्र छाँटकर उस पर पाँच संस्कृत में लिखिए।

2- ग्रीष्मावकाश में जहाँ भी भ्रमण हेतु आप जाएँ उसका वर्णन करते हुए पाँच संस्कृत में लिखिए।

3- कोई भी दो पत्र छाँटकर मंजूषा की सहायता से रिक्त स्थान भरकर पुनः लिखिए।

4- किन्ही दस पुल्लिंग, दस नपुंसकलिंग,व दस स्त्रीलिंग,शब्दों को चुनकर कर उनके अर्थ भी लिखिए।

SUBJECT-MATHEMATICS

Activity 1: Mathematical Art

 1. Create a piece of mathematical art using geometrical shapes, patterns and symmetry.
 2. Use geometrical instruments to create intricate designs(in this art).
 3. Write a brief explanation of the mathematical concepts used in your artwork.

Activity 2: Math Puzzle Creation

1. Create a Math Puzzle or Brain Teaser that involves concepts like number patterns, logic or geometry.
2. Write down the puzzle along with the solution and instructions for solving it.

Activity 3: Math in Nature

1. Go on a nature walk and observe the shapes and patterns in natural surroundings.
2. Take photographs or make sketches of natural objects(e.g., leaves, flowers, seashells) that exhibit mathematical properties.
3. Label the mathematical properties(such as symmetry, patterns etc.) observed in each object.

Activity 4: Math Movie Review

1. Watch a movie or documentary that involves mathematical concepts or a mathematician's life(e.g., "The Imitation Game", "Hidden Figures", "A Beautiful Mind").
2. Write movie review highlighting the mathematical aspects portrayed in the film.

Check your Progress:

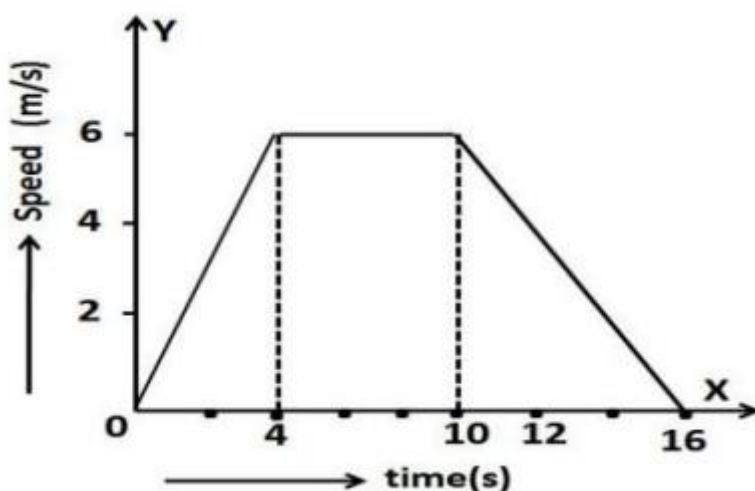Do Ex. 1.1, 1.2, 2.1 and 2.2 from NCERT Exemplar in Homework Notebook.

Note: Compile all your completed tasks into a creative portfolio (in your activity file), including photographs, review, presentation, artwork etc. Write a brief reflection on what you enjoyed most about the assignment and how it enhanced your understanding and appreciation of mathematics.

SUBJECT-SCIENCE

PHYSICS-

1. A particle is moving in a circle of diameter 5m. Calculate the distance covered and the displacement when it competes 3 revolutions.

2. A body thrown vertically upwards reaches a maximum height 'h'. It then returns to ground. Calculate the distance travelled and the displacement.

3. A body travels a distance of 15m from A to B and then moves a distance of 20m at right angles to AB. Calculate the total distance travelled and the displacement.

4. An object is moving in a circle of radius 'r'. Calculate the distance and displacement (i) when it completes half the circle (ii) when it completes one full circle.

5. An object travels 16m in 4s and then another 16m in 2s. What is the average speed of the object?

6. Vishnu swims in a 90m long pool. He covers 180m in one minute by swimming from one end to the other and back along the same straight path. Find the average speed and average velocity of Vishnu.

7. In along distance race, the athletics were expected to take four rounds of the track such that the line of finish was same as the line of start. Suppose the length of the track was 200m.
(a) What is the total distance to be covered by the athletics?
(b) What is the displacement of the athletics when they touch the finish line?
(c) Is the motion of the athletics uniform or non-uniform?
(d) Is the displacement of an athletic and the distance covered by him at the end of the race equal?

8. Starting from a stationary position, Bhuvan paddles his bicycle to attain a velocity of 6m/s in 30s. Then he applies brakes such that the velocity of bicycle comes down to 4m/s in the next 5s. Calculate the acceleration of the bicycle in both the cases.

9. Amit is moving in his car with a velocity of 45km/hr. How much distance will he cover (a) in one minute and (b) in one second.

10. 24. Study the speed-time graph of a body shown in below figure and answer the following questions:
(a) What type of motion is represented by OA?
(b) What type of motion is represented by AB?
(c) What type of motion is represented by BC?
(d) Calculate the acceleration of the body.
(e) Calculate the retardation of the body.
(f) Calculate the distance travelled by the body from A to B

CHEMISTRY-
1. **Chemistry Project** - Draw a 3D chart of A3 size on any one of the topic – Fractional distillation, chromatography, sublimation, evaporation, inter conversion of states of matter.
2. **Chemistry Assignment-**

Q1 Account for the following
a) Dogs generally hang out their tongue in summer
b) Smell of lighted incense stick spreads several meters away
c) Sponge though compressible is a solid

Q2 Water as ice has a cooling effect where as water as steam may cause severe burns. Explain these observations.

Q3 Discuss the effect of increasing temperature and pressure on the liquid state of a substance. Are these effects similar? If not assign reasons.

Q4 5ml of water was taken in a test tube and china dish separately. These samples were then kept under different conditions as below Both the samples are kept under a fan Both the samples are kept inside a

cupboard a) State in which case evaporation will be faster? give reasons b) How will the rate of evaporation change if above activity is carried out on a rainy day? Justify

Q5 Explain how will you separate Ammonium chloride and common salt using sublimation

Q6 Write an activity to prove that liquids of different densities diffuse at different states.

Q7 All of us are familiar with LPG cooking gas cylinder used at home

a) What is the full form of L.P.G?

b) What is it composed of?

c) In what form gas is stored? What are the factors responsible for it?

d) What is the change observed when regulator is opened? Why?

Q8 Convert a) 5 ^{0}C to Kelvin b) 345 K to ^{o}C

Q9 At What temperature on the kelvin scale does ice melt? Draw a diagram to show set up of melting point of ice.

BIOLOGY-

Q 1- Prepare a chart of compound microscopes, showing different parts with their functions.

Q 2- Perform an activity to show the process of endosmosis, enosmosis when you are taking raisins and putting them in hypertonic solution, isotonic solution and hypotonic solution.

Q 3- Collect the information about chromosome number of organisms known to you.

Q 4- Study the basic difference between animal and plant cell

SUBJECT-SOCIAL SCIENCE

HISTORY & CIVICS-

Prepare a detailed project on **"FOREST SOCIETY AND COLONIALISM IN THE 19TH CENTURY".**

Subtopics to be highlighted in the project:

1- Forest situations prevailed at pre-colonial, colonial and post- colonial era.
2- Growth and role of commercial forestry in different types of vegetation
3- Reasons for rebellions at forest areas of south East-Asia with specification to Java.

GEOGRAPHY-

Prepare an article on UNDERLINE ANY ONE of the following movements related to forest conservation and management:

1. Chipko Movement
2. Joint Forest Management
3. Beej Bachao Andolan
4. Navdanya Movement

Instructions:

- *First of all search online sources to consult or gather information and data regarding the selected topic.*
- *Complete your article within 5-10 lined white sheets.*
- *Use a folder made up of biodegradable material.*
- *Include Introduction, related places, history, and consequences of the selected movement.*
- *Use some pictures, diagram, map etc.*

Use pencil colours and blue/black pen for any diagram or map.

SUBJECT-COMPUTER

Q1- Create a poster for "Air Pollution" in Ms-Word with the following features.

1. Fontface   2.Fontsize   3.Fontcolor   4. Header &Footer   5. Images

Q2- Create a presentation (4-6 slides) on any one of the following topics.

1. Air Pollution   2. TrafficRules   3. Water Conservation

Send the email :- class 9A:- harshvardhan@dpsaligarh.org. Class 9B. rajeevkushwaha@dpsaligarh.org

SUBJECT-ART

Prepare a poster on topic "Preserve our Natural Resources "