PM SHRI KENDRIYA VIDYALAYA BSF JALALABAD
SUMMER VACATIONS HOLIDAYS HOMEWORK
CLASS – IX (2025-26)

SUBJECT - English

1. Which schools do you prefer - ancient, present or future? Give a detailed explanation for your choice.
2. Write a time travel letter to your future self describing the life you are living today.
3. Make a collage describing the scenes of the fair as depicted in "The Lost Child"
(Collect pictures from newspapers, magazines, old books)
4. Write three Forms of Verbs of any 50 Verbs.

SUBJECT - Hindi

1. क्षितिज पाठ्यपुस्तक के काव्य खण्ड से कबीर की "साखियाँ एवं शब्द" हिंदी भावार्थ लिखें व प्रश्नोत्तर याद करें I
2.क्षितिज पाठ्यपुस्तक के गद्य खण्ड से "दो बैलों की कथा" एवं "ल्हासा की ओर" के प्रश्नोत्तर याद करें I
3. किसी भी एक कवि का जीवन परिचय देते हुए उसका साहित्यिक परिचय लिखें I
4. "वर्तमान समय में ग्लोबल वार्मिंग स्थिति" पर एक अनुच्छेद लिखेंI
5. अपने छोटे भाई को जो पढ़ाई के लिए घर से दूर रहता है उसे अपने स्वास्थ्य के बारे में सचेत करते हुए एक पत्र लिखिए I
6. विद्यालय के हिंदी पखवाड़ा कार्यक्रम पर अपने दोस्त के साथ एक संवाद लिखिएI
7. एक प्रोजेक्ट फ़ाइल (पोर्टफोलियो) का निर्माण करेंI
(नोट- गृहकार्य में लिखने वाला कार्य अपनी उत्तर पुस्तिका में करें एवं पोर्टफोलियो के लिए फाइल का प्रयोग करेंI)

SUBJECT - Social Science

1. Prepare a project in a project file on the topic "Disaster Management". (15-20 A4 size papers)
2. Map Work:
Mark States and Union Territories on Political map of India
On Political world map, locate Countries - France, Germany, Italy, Turkey, Britain, USA, Greece, Belgium, Spain, India
3. Read the 2nd chapter of each book and prepare 15 MCQ/definitions from each chapter.
4. Learn and write 3 questions (extra and back exercise) daily of the completed chapter in a separate notebook.

SUBJECT - Science

Chemistry
Answer the following questions:-

1. Convert the following temperature to Kelvin Scale (a) 100°C(b) -100 C
2. Convert the following temperature to the CELCIUS scale (a) 25K (b) 373K
3. Give the characteristics of the particles of matter.
4. Explain why temperature remain constant during the change of state of any substance?
5. Define Sublimation with examples.
6. Do we sweat more on a dry day or humid day? Justify your reason.
7. Why do we see water droplets on the outer surface of a glass containing ice cold water?
8. List two properties that liquids have in common with solids.
9. List two properties that liquids have in common with gases.
10. What will happen to the melting point of ice if some common salt is added to it? Justify your answer.
11. Liquids generally have lower density as compared to solids. But you must have observed that ice floats on water. Why?
12. What is the physical state of water at 250°C, 100°C, 0°C?
13. Give reasons :
i) A sponge can be pressed easily; still it is called a solid.
ii) Water vapours have more energy than water at same temperature.

Biology
Read the given passage carefully and give the answer of the following questions:

Diffusion is the process of movement of molecules under a concentration gradient. It is an important process occurring in all living beings. Diffusion helps in the movement of substances in and out of the cells. The molecules move from a region of higher concentration to a region of lower concentration until the concentration becomes equal throughout.

1. Name the process which is useful for the movement of substances like CO2 and O2 across the plasma membrane.
a. Osmosis b. Diffusion c. Endocytosis d. Plasmolysis

2. Osmosis is the diffusion of:
a. Water b. Free energy c. Solute and solvent d. None of these

3. Diffusion finally stops when:
a. concentration of particles of one region becomes higher than the other.
b. concentration of particles of one region becomes lower than the other.
c. concentration of particles of two regions becomes the same.
d. None of the above

4. Which of the following statement defines hypertonic solutions?
a. A solution that has a lesser concentration of solutes on the outside of a cell when compared with the inside of a cell.
b. A solution that has a greater concentration of solutes on the outside of a cell when compared with the inside of a cell.

c. A solution that has same concentration of solutes on the outside of a cell when compared with the inside of a cell.
d. None of the above

5. If the two solutions have same concentrations, they are said to be:
a. Isotonic b. Hypertonic c. Hypotonic d. Dilute

Q2. Draw well labelled diagram of
i) Plasma Membrane ii) Nucleus

Q3. Cell id the basic structural and functional unit of life . Explain

Physics
Set -1
Week -1
Read Chapter - Motion and answer the following questions
1. What is the difference between
a) distance and displacement
b) uniform and non- uniform motion
c) speed and velocity.
2. Draw the x-t graph for uniform and non-uniform motion.
3. Draw the v-t graph for uniform and non-uniform motion.
4. Solve Ncert example 1,2,3
Week -2
1.State three equations of motion.
2. Define acceleration. Also write it's formula.
3. Define uniform circular motion.
4. Solve Ncert example 4,5,6,7
Week -3
1.Solve exercise question 1,2,3,4,7,10.
2. Draw a poster on objects in circular motion.
Week -4
Design an experiment to find the speed of your favourite car. Make a data table between distance and time.Plot its graph and find the speed from graph
Week -5
Read Chapter – Force and laws of motion.
1. State Newton's three laws of motion.
2. Draw a poster on effects of forces.
Week -6
1. Write summary and formula list of Chapter –Motion

Set -2
Week -1

1. An object undergoes an acceleration of 8m/s^2 starting from rest. Find the distance travelled in 1 second.
2.A ship is moving at a speed of 56km/h. One second later, it is moving at 58km/h. What is its acceleration?
3.A train starting from the rest moves with a uniform acceleration of 0.2 m/s^2 for 5 minutes. Calculate the speed acquired and the distance travelled in this time
4.A cyclist moving on a circular track of radius 50m complete revolution in 4 minutes. What is his (i) average speed (ii) average velocity in one full revolution?
5. Define acceleration.Draw the v-t graph for uniform and non- uniform motion.Write three equations of motion.

Week -2

1.A car starts from rest and moves along the x-axis with constant acceleration 5 m/s² for 8 seconds. If it then continues with constant velocity, what distance will the car cover in 12 seconds since it started from the rest?
2. A motorcyclist drives from A to B with a uniform speed of 30 km/hr and returns back with a speed of 20 km h/hr. Find its average speed.
3. An object is dropped from rest at a height of 150 m and simultaneously another object is dropped from rest at a height 100 m.What is the difference in their heights after 2 s if both the objects drop with same accelerations?
5. An object starting from rest travels 20 m in first 2 s and 160 m in next 4 s. What will be the velocity after 7 s from the start ?
6. Solve Ncert exercise question 1,-4 of chapter - Motion.

Week -3

1.A particle is moving in a circular path of radius r. What would be the distance and displacement after half a circle?
2. A body is thrown vertically upward with velocity u. What would be the greatest height h to which it will rise ?
3. Suppose a boy is enjoying a ride on a merry-go-round which is moving with a constant speed of 10 m/s.Name the type of motion.
4.Obtain a relation for the distance travelled by an object moving with a uniform acceleration in the interval between 4th and 5th seconds.
5.Solve Ncert exercise question 5, 7,10 of chapter - Motion.
6.Draw a poster on objects in circular motion.

Week -4

Design an experiment to find the speed of your favourite car. Make a data table between distance and time.Plot its graph and find the speed from graph

Week -5

Read Chapter – Force and laws of motion.

1. State Newton's three laws of motion.
2. Draw a poster on effects of forces.

Week -6

1. Write summary and formula list of Chapter -Motion

SUBJECT -Mathematics

Write the following activities in activity file.

https://drive.google.com/file/d/1MO8lFRx-OfISBZkI5IbqlzAWpQNMlUSe/view?usp=drivesdk

SUBJECT - Art and Craft

1. Still life – 2 pencil drawings, 2 with colour on A4 ivory sheet.
2. 2 landscape with acrylic colour on A4 ivory sheet.
3. 2 craft work with waste material