



RISHI GALAV PUBLIC SCHOOL

Summer Vacation Homework 2020-21

Class- IX

Mathematics

Assignment:-

- Make a chart on any chapter related with your text book

Working Model:-

- Probability
- Triangle

Social Science

- One project on Disaster Management. Learn all dates and new terms of all chapters done in the class. Complete notebook and Revise all syllabuses covered in the class.

Drawing/Craft

- Poster making- (Corona Virus)/ Different types of paper flower bunch.

English

- Revise Value points and learn answers of chapters.
- Make a PPT (Topic – Importance of literature in modern education)
- Write biography of any two writers from your literature book and learn.

Hindi

पाठ्य पुस्तक – क्षितिज भाग 1

व्याकरण पुस्तक – व्याकरण मनस्वी (मधुवन प्रकाशन)

सहायक पुस्तक – कृतिका भाग 1

- हिन्दी विषय चुनने वाले छात्र/छात्राओं के लिए आवश्यक है कि उनका लेखन कार्य शुद्ध हो।
- जिन छात्र/छात्राओं को लेखन में अशुद्धियाँ होती हैं वह शुद्ध लेखन हेतु प्रतिदिन श्रुतलेख कार्य का अभ्यास करें।
- उपसर्ग, प्रत्यय, समास, पाठ से 15–15 उदा लिखने हैं।
- प्रतिदिन कोई भी ज्ञानवर्धक पुस्तक पढ़ें। पढ़कर उसके बारे में एक अनुच्छेद जरूर लिखें।
- क्षितिज, कृतिका पुस्तक के पाठों को एक बार अवश्य पढ़ें।
- सप्ताह में दो औपचारिक, दो अनौपचारिक पत्र लिखें।

Biology

- Write a note on Communicable diseases. Discuss about epidemic and pandemic. Write a note on COVID-19 (Corona Virus).
- Draw well labelled diagrams of PLANT CELL and ANIMAL CELL. (Draw large diagram one in each chart paper.)
- Draw well labelled diagram of each cell organelle (Plasma Membrane, Golgi, Lysosome, ER, Mitochondria, Nucleus) in chart paper.

Chemistry

Complete the question answer given in PDF form during class and write five activities with diagram.

Physics

General Instructions:

1. A copy of this assignment should be pasted in the class-work register.

2. All the questions should be solved on papers and pasted in class work register.

- Using basic concepts of physics, Make a working model on any renewable resources of energy. Solar energy, Hydro energy, wave energy, Wind energy, Geothermal energy, Biogas plant, Tidal energy.
- Plan to go to a place by a vehicle. Take readings of odometer and speedometer after every 5min. Test till you reach your destination. Record these observations in tabular form; plot graphs between distance-time and speed time. State whether this motion is uniform or non-uniform.
- Answer the following questions:
 - What is the acceleration of a body moving with uniform velocity?
 - What does the slope of a distance-time graph gives?
 - Can displacement be zero even when distance is not zero? Give Example.
 - How can you get speed of an object from its distance – time graph?
 - How can you get distance of an object from its speed – time graph?
 - Can a body have zero velocity and still acceleration? Give example.
 - Is it possible in straight line motion a particle having zero speed and a non-zero velocity? Explain.
 - On a 60 km straight road, a bus travels the first 30 km with a uniform speed of 30 kmh⁻¹. How fast must the bus travel the next 30 km so as to have average speed of 40 kmh⁻¹ for the entire trip?
 - A driver takes 0.20 seconds to apply the brakes. If he is driving car at a speed of 54 kmh⁻¹ and the brakes cause a deceleration of 6.0 ms⁻². Find the distance travelled by the car after he sees the need to put the brakes.
 - A ball thrown vertically upwards with a speed of 19.6 ms⁻¹ from the top of a tower returns to the earth in 6



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seconds. Find the height of the tower. ($g = 9.8 \text{ ms}^{-2}$)

11. A bullet initially moving with a velocity of 20 m/s strikes a target and comes to rest after penetrating a distance of 0.01 m in the target. Calculate the retardation produced by the target.
12. A body moving in a straight line at 72 km/h undergoes an acceleration of 4 m/s^2 . Find its speed after 2 seconds.
13. A car moving at rate of 72 km/h and applies brakes which provide a retardation of 5 ms^{-2} .
 - a. How much time does the car take to stop.
 - b. How much distance does the car cover before coming to rest?
 - c. What would be the stopping distance needed if speed of the car is doubled?
14. A body starts from rest and moves with a uniform acceleration of 5 m/s^2 for 5s and then it moves with a constant velocity for 4s. Later it slows down and comes to rest in 5s. Draw the velocity- time graph for the motion of the body and answer the following questions:
 - a) What is the maximum velocity attained by the body?
 - b) What is the distance travelled during this period of acceleration?
 - c) What is distance travelled when the body was moving with constant velocity?
 - d) What is the retardation of the body while slowing down?
 - e) What is the distance travelled by retarding?
 - f) What is the total distance travelled?

Physical Education

1. Do practice these yoga asana at home:-

i. Padahastasan	ii. Trikonasan	iii. Sarvangasan
iv. Matsayasan	v. Halasana	vi. Bhutangasana
vii. Dhanurasan	viii. Salabhasana	ix. Naukasana
x. Ustrasana	xi. Shashankasana	xii. Vrikshasana
xiii. Tadasana	xiv. Brakshasana	
2. Anulom vilom pranayam - For 5 to 10 min
3. Kapal bharti pranayam - For 5 to 15 min
4. Sitli pranayam - Form 5 min
5. Stretching exercise for neck, hand, back (trunk), leg for 2 to 5 min.
6. Do practice of march past (discipline)
 - a. Attention
 - b. Stand at ease
 - c. About turn
 - d. Right turn
 - e. Left turn

Emotional well-being activities:

1. List five instances with your parents where you felt excited.
2. Write about the recent incident where you felt nervous.
3. Name one person to whom you are always grateful and why?
4. Do you remember any moment where you were feeling helpless?

Dear Parent,

School is missing its students. I hope you are utilising Lockdown period constructively for development of your child. School has conducted the online classes for the entire month of April. Almost 2-3 chapters of all subjects are finished. School is sending summer vacation homework to keep the students learning in the best possible manner. You are requested to help the student in completing the homework. In case of any query, [contact +91 9109329218 \[WhatsApp Message / SMS only\]](tel:+919109329218). See you after vacations.

Teachers & Principal