



RISHI GALAV PUBLIC SCHOOL

Summer Vacation Homework 2020-21

Class- X

Mathematics

Assignment:-

- Complete any two activities from NCERT syllabus project work

Working Model:-

- Probability
- Trigonometry

Social Science

- Every student has to compulsorily undertake any one project on the following topics:-
 - Consumer Awareness
 - Social Issues
 - Sustainable Development
- Complete notebook and Revise all syllabus covered in the class.

Drawing/Craft

Make Poster (Topic: STAY HOME STAY SAFE STAY HEALTHY)/ Make Corona Mask (Any paper/cloth).

Hindi

- आप सभी छात्रों को अपनी पाठ्य पुस्तक क्षितिज कृतिका के पाठों को पढ़ना है।
- क्षितिज में संकलित पाठों के लेखक व कवि का जीवन परिचय लिखना है।
- व्याकरण पुस्तक से वाच्य, रचना के आधार पर वाक्य भेद का अभ्यास कार्य करना है।
- 'रस' पाठ से रस क स्थयी भाव व उदा० याद करना है।
- प्रतिदिन एक पत्र या किसी भी विषय पर निबंध लेखन का अभ्यास करना है।

Biology

- Discuss a list of measures to save our ENVIRONMENT. Find out how the sewage in your locality is treated. Are there mechanisms in place to ensure that local water bodies are not polluted by untreated sewage?
- Write a note on COVID-19 (Corona Virus).
- Draw well labeled diagrams of Digestive system, Respiratory System, Circulatory System, Excretory System in Chart paper.

Chemistry

Write 50 chemical equations balance them and write the type of chemical equation.

Physics

General Instructions:

- A copy of this assignment should be pasted in the class-work register.
- All the questions should be solved on pages and pasted in class work register only.

- Define refraction.
- Define refractive index.
- What is the unit of refractive index?
- List out the factors on which the refractive index of a medium depends.
- Define angle of incidence.
- What is the angle of incidence if a ray of light is incident normal to the surface separating the two media?
- What is a lens?
- What is a concave lens?
- What is the nature of the focus of a concave lens?
- What type of image is formed by a concave lens?
- A thin lens has a focal length $f = -12$ cm. Is it convex or concave lens?
- A lens forms an erect image for all positions of the object in front of it. Is the lens convex or concave?
- Where an object should be placed so that a real and inverted image of same size is obtained using a convex lens?
- Write the relation between u, v and f of a thin lens.
- What is the sign of u, v and f for a convex lens according to Cartesian sign convention?
- An object of height 1m is placed at a distance of $2f$ from a convex lens. What is the height of the image formed?
- Define power.
- What is least distance of distinct vision?
- What happens when a ray of light passes through the optical centre of a lens?
- State the laws of refraction.
- Diagrammatically represent the refraction of light through a rectangular glass slab.



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22. Define convex lens. Why is it referred to as converging lens?
23. Draw a diagram to show the second principal focus of a convex lens.
24. Distinguish between a convex and a concave lens.
25. Draw a ray diagram to show the refraction of light when it passes through the optic centre of a convex lens.
26. List out the uses of convex lenses.
27. With the help of a ray diagram show how an object gets magnified in a simple microscope.
28. Define the power of a lens. What is its unit?
29. With the help of a diagram explain how light gets refracted when it passes through a rectangular glass slab.
30. An object is placed at a distance of 50 cm from a concave lens of focal length 20 cm. Find the nature and position of the image.
31. An object is placed 50 cm from a lens which produces a virtual image at a distance of 10 cm in front of the lens. Draw a diagram to show the formation of image and calculate the focal length of the lens.

PROJECT WORK

I. 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)

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 (discipl)
 - 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 \[WhatsApp Message / SMS only\]](https://www.whatsapp.com/channel/00299109329218). See you after vacations.

Teachers & Principal