



GREEN VIEW PUBLIC SCHOOL

CLASS – X HOLIDAY HOMEWORK SESSION 2025-26

ENGLISH

1.PORTFOLIO:

PREPARE A PORTFOLIO WITH THE FOLLOWING -

- Introduction
- My strengths
- I need to improve on...
- My achievements.
- I have participated in...
- The books I have read
- The book I wish to read

2. A TRAVEL BROCHURE

You have visited a number of places in India. Prepare a travel brochure on any one of the cities you liked the most. You can use the following guidelines to write information with pictures. Include the following details

- 1) Location
- 2) Map
- 3) Historical background
- 4) Climate
- 5) Best time to visit
- 6) Fairs and Festivals
- 7) Food
- 8) Local Activities/Festival

3. Revise all the work done so far.

HINDI

1. साहित्य व व्याकरण का करवाया गया सम्पूर्ण पाठ्यक्रम याद कीजिये।
2. बाल गोबिन भगत के जीवन से आप क्या शिक्षा लेना चाहेंगे लगभग 150 शब्दों में अपने विचार लिखिए।
3. पान वाले का कैष्टन के लिए इस तरह मजाक उड़ाना आपको कैसा लगा?
4. देशभक्तों का इस प्रकार मजाक उड़ाया जाना कहाँ तक उचित है अपने विचार लगभग 100 शब्दों में व्यक्त कीजिये।
5. गोपियों द्वारा उद्धव को यह कहना कि कृष्ण जी ने मर्यादा का पालन नहीं किया, यहाँ पर किस प्रकार की मर्यादा का उल्लंघन करने की बात कही गई है लगभग 60 शब्दों में स्पष्ट कीजिए।
6. अलंकार और वाक्य का अभ्यास कार्य व्याकरण की पुस्तक में भरें।

7. संकट के समय विद्यार्थियों का देश के प्रति क्या उत्तरदायित्व है? बताइए।

MATHEMATICS

Q.1 Learn and write all the formulae and identities from done (completed) chapters.

Q.2 Practice 5 questions daily from R.D Sharma or from any other reference book chapter wise (done chapter)

Q 3 Learn square from 1 to 50 and cube from 1 to 25.

Q.4 Do 3 activities from maths lab manual.

Q.5 Solve all the assignments chapter wise in separate note copy sent in group.

COMPUTER APPLICATION

Create a project on “INTERNET SERVICES ” on a word processor.

ART EDUCATION

Make any two paintings given in your art book in Unit 7 art history paintings on half imperial size cartridge sheet with water colours or pencil colours.

SOCIAL SCIENCE

1. Make a project report on any one topic : Sustainable Development OR Consumer Awareness.

(Do the project on A4 Sheet).

2. Make a portfolio on culture, language and Food and the population of Andaman and Nicobar island.(Use A3 sheet)

3. Learn work done in class.

CHEMISTRY

1) Do the given assignment in the subject notebook.

2) Make a chart and working model according to given roll no. Roll No. 1 to 5 – Lava Lamp

6 to 10 – Make a glycerine based soap

11 to 15 - Make home made vinegar

16 to 20 – Find pH of lemon juice and make an investigatory project

21 to 25 – Draw the shape of different apparatus used in lab and paste them on a chart

26 to 30 – Make a toothpaste at home

31 to 36 – Make handmade papers from recycled material

BIOLOGY

– Make a project on life process (by including following topics)

1. Schematic Presentation of circulation of blood
2. Open stomata and closed stomata
3. Nutrition in Amoeba
4. Respiratory System of human being
5. Human heart
6. Excretory system of human being
7. Nephron unit of kidney

Note:- - Use A4 sheets for making Project. The project should be of 6-8 pages - Also draw various diagrams related to the topics(don't Paste pictures) - Make a beautiful cover of your project - Creativity will be appreciated.

PHYSICS

Chapter: Light-Reflection and Refraction

1. What is light? What is its nature?
2. What is the speed of light in vacuum?
3. What is a mirror?
4. What is the focal length of a plane mirror?
5. Differentiate between real and virtual image.
6. What type of image is formed on a cinema screen?
7. A concave mirror is a part of sphere of radius 40 cm. What is the focal length of the mirror?
8. Radius of curvature of a mirror is 20 cm. What type of mirror is it?
9. Magnification of a mirror is $+2/3$. What type of mirror is it?
10. Magnification of a mirror is -1 . What type of mirror is it? What is the position of object and image? Give the nature of image.
11. Name the type of mirror used:- (i) As a reflector in search light (iii) by the dentist (ii) As side view mirror in vehicles (iv) as a shaving mirror
12. Wherever you may stand in front of mirror, your image is always erect & same sized, what type of mirror is it?
13. (a) A ray of light strikes the mirror at an angle of 20° . What is the angle of reflection? (b) Give the angle of incidence and reflection for normal incidence.
14. A candle is kept in front of plane mirror at distance of 15 cm. What is distance between candle & its image?

15. Radius of curvature of a mirror is +24cm. Name the kind of mirror and give the characteristics of the image formed by it.
16. Define refraction.
17. State the laws of refraction.
18. How does the lateral displacement depend upon: - ‘
 - (a) Thickness of the glass slab.
 - (b) Angle of incidence
19. What is the lateral displacement when a ray of light falls normally on a glass slab?
20. Refractive index of water with respect to air is 1.33, what is refractive index of air with respect to water?
21. Under what condition, the angle of refraction will be equal to the angle of incidence?
22. Refractive index of glass is 1.65, what is the speed of light in glass?
23. If refractive indices of alcohol & water are 1.36 and 1.33 respectively, which of the two is optically denser?
24. A 1 cm high object is placed at a distance of 2F from a convex lens, what is the height of the image formed?
25. Focal length of a lens is 25 cms. What is its power?
26. Where an object should be placed for using a convex lens as magnifying glass?
27. Power of a lens is 0.4 D. what is its focal length?
28. Why does a stick, partly immersed in water, appear to be bent? Explain with a diagram.
29. A small electric lamp is placed at the focus of a convex lens. What is the nature of the beam of light produced by the lens?
30. Light travels from rarer medium 1 to denser medium 2. Angle of incidence & refraction are 45° & 30° resp. (i) Calculate the refractive index of second medium with respect to the first. (ii) Calculate the refractive index of the first medium with respect to the second.
31. Find the position, nature and size of the image of an object 3 cm high placed at a distance of 9 cm from a concave mirror of focal length 18 cm.
32. An object 4 cm high is placed 40 cm in front of a concave mirror of focal length 20 cm. find the distance from the mirror, at which a screen be placed to obtain a sharp image.
33. A convex lens has focal length of 30 cm. at what distance should object be placed from the lens so that it forms an image at 60 cm on other side of the lens? Find the magnification produced by the lens.
34. An arrow 2.5cm high is placed at a distance of 25 cm from a diverging mirror of focal length 20 cm. Find the nature, position and size of the image formed.
35. The image formed by a convex mirror of focal length 30 cm is a quarter of the object, what is the distance of object from the mirror?
36. An erect image 3 times the size of the object is obtained with a concave mirror of radius of curvature 36 cm. Calculate the position of the object.
37. A concave lens has focal length of 15 cm. at what distance should an object be placed from the lens so that it forms an image at 10 cm from the lens? Find the magnification of the lens.
38. A 2 cm tall object is placed perpendicular to the principal axis of a convex lens of focal length 10 cm. the distance of the object from the lens is 15 cm. find the nature, position and size of the image.
39. The image obtained with a convex lens is erect and its length is 4 times the length of the object. If the focal length of the lens is 20 cm, calculate the object and image distance.

40. A concave lens of focal length 25 cm and a convex lens of focal length 20 cm are placed in contact with each other. What is the power of this combination? What is the focal length of the combination?
41. Find the focal length and nature of lens which should be placed in contact with a lens of focal length 10 cm so that the power of the combination becomes 5 diopter .