



LITTLE FLOWER CHILDREN SCHOOL-BALLIA



Affiliated to CBSE New Delhi [10+2]



The time to cheer aloud,
The time when you can play,
On the beach with your loved ones,
And do what your heart say,
There is no one to see here,
There is nothing as such to see,

Only the sunlight passing the home,
And clear blue sky as can be,
Summers are finally here,
So have a good summer time,
As it's the most amazing time
Happy Summer Time.

SESSION: 2025- 26

Class: 10th

Passport Size

Paste Photo

Students Name _____

Roll No: _____

Section: _____

Holiday Homework

Little Flower Children School
Kiriharapur, Ballia

Notice

NOTICE NO: LFCS/May/09/2025

Date: 18/05/2025

Dear Parents,

Summer vacation is a joyful and refreshing time for children. It provides them with an opportunity to relax, explore their interests, and learn beyond textbooks. It is also the perfect time to encourage creative thinking and skill development.

To make this vacation meaningful and engaging, we have prepared fun-filled and educational assignments. These have been designed to ensure that children enjoy themselves while learning. We encourage students to complete the tasks independently, with minimal assistance. Your cooperation will help us nurture responsible and curious learners. We would appreciate it if the children complete the assignments on their own. Help and guidance may be given wherever required. Let us work together towards the betterment of the students.

Exciting prizes will be awarded to the best five Holiday Assignments.

Happy Holidays

General Instructions to be Followed:

1. This is to notify that the school announces Summer Vacation 2025 from 20th May 2025 to 30th June 2025. Classes will resume on 1st July 2025 (Tuesday) as usual.
2. The Summer Vacation Home Assignment is available on our website: www.lfcsballia.co.in
3. The school office will remain open from 8:00 am to 1:00 pm during the summer vacation.
4. The holiday homework is to be done neatly and in accordance with the questions asked. Submit it to the subject teacher on or before 5th July 2025. Late submissions will not be considered for prizes.
5. Mock Test Result Distribution will be held on 24th May 2025, from 9:00 am to 11:30 am.
6. Download the holiday homework pages and complete the tasks.
7. Handwriting should be neat and legible.
8. All holiday homework should be done in the designated holiday homework copy or on the given worksheets.
9. The holiday homework will be graded.
10. Work should be original and not copied from the internet.
11. Assignments should be submitted to the respective subject teachers. Surprise recapitulations will be conducted in July.
12. Encourage your ward to complete the holiday homework independently.

Summer Tips to Follow:

1. A healthy mind resides in a healthy body - go for walks, stay hydrated, eat healthy food, and avoid junk food.
2. Read newspapers, novels, blogs, and stories to build language and vocabulary skills.
3. Get involved in activities like cooking, singing, dancing, aerobics, cycling, trekking, swimming, art and craft, river rafting, and gardening. Share your experiences with friends and family.
4. Spend time with grandparents and parents. Talk to them and learn from their life experiences.

Thanks & Regards

LFCS BALLIA

ENGLISH

Instructions: Use waste material to make models or charts

1. Taking a break from studies once in a while is very important. It freshens up our body and mind. What is your favorite indoor hobby during summer vacation . Write about it in 120 words.
2. Write a short memoir on the theme, “**My Memoir** ”, in about 120 words.
3. Prepare a Dictionary having minimum 10 words of each alphabet (new words) with meaning to enhance the vocabulary. Cover it with beautiful cover and put a book mark in it with a moral value written on bookmark.
4. Prepare a chart on Parts of Speech.
- 5) Learn word meaning and question and answer from both books.

HINDI

१. किसी भी चर्चित व्यक्ति का अपनी निजिता को सार्वजनिक करना या दुसरो का उनसे इसी अपेक्षा करना सही है , इस विषय के पक्ष विपक्ष में अपना तर्क दीजिए।
 २. बिना ईमानदारी और साहस के आत्मकथा नहीं लिखी जा सकती है | इससे प्रभावित किसी महापुरुष की आत्मकथा लिखिए |
 ३. “ कि बला शौक फरमाए ” “आदाब अर्ज” शौक फरमाए जैसे कथन शिष्टाचार सूचक कथनों की एक सूची तैयार कीजिए |
 ४. पश्चिम की चका चौध से आकर्षित हो कर अनेक भारतीय विदेशो की ओर उन्मुख हो रहे है , इसपर अपने विचार लिखिए –
- नोट :- उपरोक्त गृहकार्य A4 साइज़ पेपर पर लिखे।

ART INTEGRATED PROJECT

Collect the information and Depict SDG India Index, Performance of states and union territories by a Bar Graph.

FUN ‘N’ LEARN ACTIVITY

The Andaman and Nicobar Islands are home to a number of indigenous tribes. Search about various tribes, and demonstrate the population of these tribes with the help of Bar graph. Lakshadweep islands have a diverse population. Illustrate the population of the different communities residing there, through Pie Chart.

ACTIVITY

OBJECTIVE

To obtain the solution of a quadratic equation ($x^2 + 4x = 60$) by completing the square geometrically.

MATERIAL REQUIRED

Hardboard, glazed papers, adhesive, scissors, marker, white chart paper.

METHOD OF CONSTRUCTION

1. Take a hardboard of a convenient size and paste a white chart paper on it.
2. Draw a square of side of length x units , on a pink glazed paper and paste it on the hardboard [see Fig. 1] . Divide it into 36 unit squares with a marker.
3. Alongwith each side of the square (outside) paste rectangles of green glazed paper of dimensions $x \times 1$, i.e., 6×1 and divide each of them into unit squares with the help of a marker [see Fig. 1].
4. Draw 4 squares each of side 1 unit on a yellow glazed paper, cut them out and paste each unit square on each corner as shown in Fig. 1.

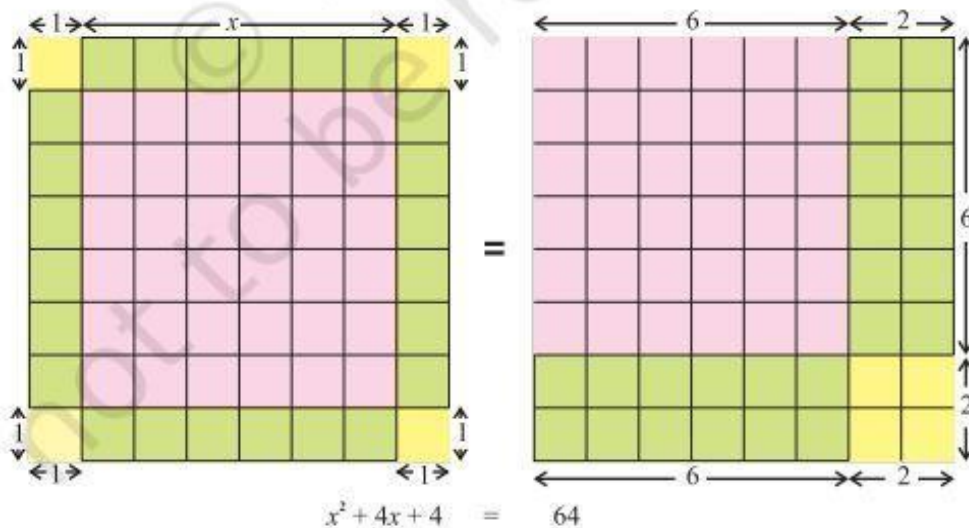


Fig. 1

Fig. 2

5. Draw another square of dimensions 8×8 and arrange the above 64 unit squares as shown in Fig. 2.

DEMONSTRATION

1. The first square represents total area $x^2 + 4x + 4$.
2. The second square represents a total of 64 (60 + 4) unit squares.

Thus, $x^2 + 4x + 4 = 64$

or $(x + 2)^2 = (8)^2$ or $(x + 2) = \pm 8$

i.e., $x = 6$ or $x = -10$

Since x represents the length of the square, we cannot take $x = -10$ in this case, though it is also a solution.

OBSERVATION

Take various quadratic equations and make the squares as described above, solve them and obtain the solution(s).

APPLICATION

Quadratic equations are useful in understanding parabolic paths of projectiles projected in the space in any direction.

ASSIGNMENT

- Find the HCF and LCM of 75 and 160 by Fundamental theorem of Arithmetic and verify $\text{LCM} \times \text{HCF} = \text{product of two numbers}$.

- Prove $5 + 2\sqrt{3}$ is irrational.

Find the zeros of the polynomial $6x^2 - 3 - 7x$ and verify the relationship Between the zeros and the coefficients.

Obtain the zeros of the quadratic polynomial $x^2 - 8x + 4$ and verify the Relation between its zeros and coefficients.

If the product of the zeros of the polynomial $(ax^2 - 6x - 6)$ is 4, find the value of a .

If one zero of the polynomial $(a^2 + 9)x^2 + 13x + 6a$ is reciprocal of the other, find the value of a .

Solve graphically the system of linear equations $4x - 5y + 16 = 0$ and $2x + y - 6 = 0$. Determine the vertices of the triangle formed by these lines and the x -axis.

Solve the following system of linear equations graphically: $4x - 5y - 20 = 0$ and $3x + 5y - 15 = 0$. Determine the vertices of the triangle formed by the lines representing the above equations and the y -axis.

Solve for x and y : $0.4x - 1.5y = 6.5$, $0.3x - 0.2y = 0.9$

Find the values of k for which the system of equations $x - 2y = 3$, $3x + ky = 1$ has a unique solution.

Find the value of k for which the following pair of linear equations has infinitely many solutions:

$$2x - 3y = 7, (k + 1)x + (1 - 2k)y = (5k - 4).$$

Find the value of k for which the given system of equations has infinitely many solutions: $x + (k + 1)y = 5$, $(k + 1)x + 9y + (1 - 8k) = 0$.

ASSERTION AND REASON BASED QUESTIONS

DIRECTION: In the following questions, a statement of assertion (A) is followed by a statement of Reason

(R). Mark the correct choice as:

Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)

Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A)

Assertion(A) is true but reason(R) is false.

Assertion(A) is false but reason(R) is true.

Assertion: $P(x) = 4x^3 - x^2 + 5x + 3x - 2$ is a polynomial of degree 3.

Reason: The highest power of x in the polynomial P(x) is the degree of the polynomial.

Assertion : $3 - 2\sqrt{5}$ is one zero of the quadratic polynomial then other zero will be $3 + 2\sqrt{5}$ Reason:

Irrational zeros (roots) always occurs in pairs.

Assertion: The value of k for which the system of equations $3X + KY = 0$, $2x - y = 0$ has unique solution if K is not equal to $-3/2$.

Reason: The system of linear equations $a_1x + b_1y + c_1 = 0$ and $a_2x + b_2y + c_2 = 0$ gives unique solution if a_1/a_2 is not equal to b_1/b_2 .

CASE BASED QUESTIONS-1:

Lavanya wants to organize her birthday party. She is very happy on her birthday. She is very health conscious, thus she decided to serve fruits only in her birthday party. She has 36 apples and 60 bananas at home and decided to serve them. She wants to distribute fruits among guests. She does not want to discriminate among guests, so she decided to distribute fruits equally among all.

• How many maximum guests Lavanya can invite?

(a) 12 (b) 120 (c) 6 (d) 180

• How many apples and bananas will each guest get?

(a) 3 apple 5 banana

(b) 5 apple 3 banana

(c) 2 apple 4 banana

(d) 4 apple 2 banana

Lavanya decide to add 42 mangoes also. In this case how many maximum guests Lavanya can invite?

(a) 12 (b) 120

(c) 6

(d) 180

How many total fruits will each guest get?

(a) 6 apple 5 banana and 6 mangoes

(b) 6 apple 10 banana and 7 mangoes

(c) 3 apple 5 banana and 7 mangoes

(d) 3 apple 10 banana and 6 mangoes

• If Lavanya decide to add 3 more mangoes and remove 6 apple in total fruits, in this case how many maximum guests Lavanya can invite?

(a) 12

(b) 30

(c) 15

(d) 2

CASE BASED QUESTIONS -2

There is a circular path around the ground. If Ram takes 12 minutes to run around this circular path, while Geet takes 15 minutes for the same. If both start from the same point at same time and goes in the same direction, then answer the following questions.

• They will meet again at what time?

a) 1 hour

(b) 120 minutes

(c) 5 minutes

(d) 40 minutes

How many more rounds will Ram take in 120 minutes than Geet?

a)1

(b) 2

(c) 10

(d) 8

Find the middle rational number between 12 and 15.

- (a) 10 (b) 13.5 (c) 12.2 (d) 6

Calculate smallest 3- digit number where both will meet?

- 120 minutes (b) 100 minutes (c) 900 minutes (d) 980 minutes

Calculate product of HCF and LCM of 12 and 15.

- a) 200 (b) 120 (c) 180 (d) 104

CASE BASED QUESTIONS -3

Two very intelligent and hardworking brothers Sanjay and Rahul support their parents by taking tuitions. The ratio of the income they made be from the tuition are in the ratio 9:7 respectively and the ratio of their monthly expenditure is 4:3 and each of them manages to save rupees 2000 per month. On basis of above situation answer the following questions.

linear equations representing income with variable x and expenditures with variable y are

(a) $9x - 7y = 2000$; $4x - 3y = 2000$,

(b) $9x - 4y = 2000$; $7x - 3y = 2000$,

(c) $9x - 3y = 2000$; $7x - 4y = 2000$

(d) $9x + 7y = 2000$; $4x + 3y = 2000$

Find the monthly income of both brothers.

- (a) ₹33000 (b) ₹30000 (c) ₹32000 (d) ₹40000

Find monthly expenditure of Rahul.

- (a) ₹12000 (b) ₹10000 (c) ₹12500 (d) ₹11600

In how many months both of them will manage to buy a laptop of worth 44000 with their saving.

- (a) 10 months (b) 11 months (c) 9 months (d) 8 months

3- Complete all three chapter from RS Agrawal in to fair note

ii- Complete all three chapter from NCERT into fair note

iii- Make a formulae Copy and write all the formulae and definitions in that copy.

iv- Learn all the definitions and formulae.

PHYSICS

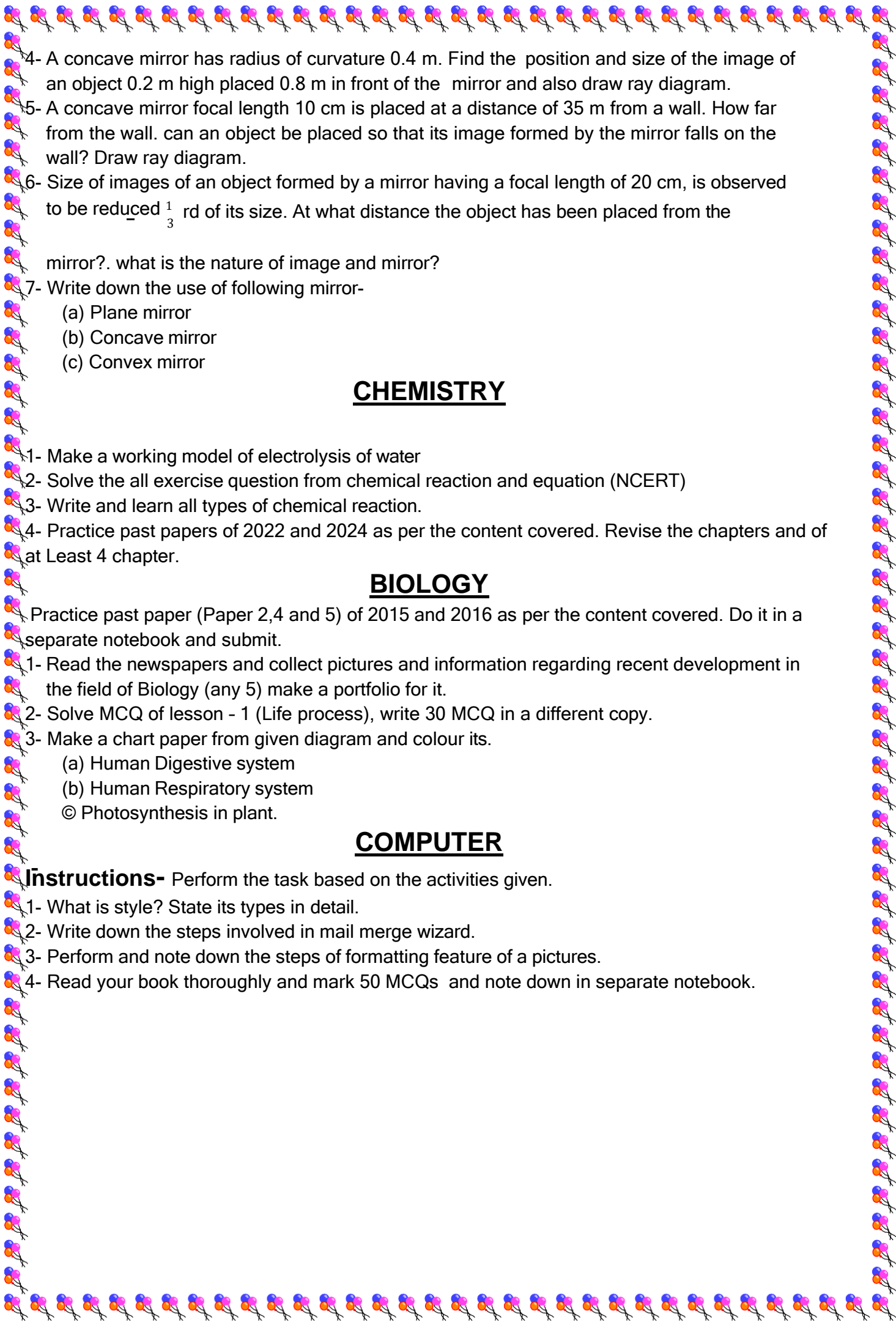
1- Define the following terms in the context of spherical Mirrors:

- (a) Pole (b) Centre of curvature (c) Radius of curvature (d) Principal axis
(e) Principal focus (f) Angular aperture (g) Linear Aperture (h) Praxial rays
(i) Marginal rays

2- Draw ray diagram and Explane the position, size and natural of image from a concave mirror, when object is placed at:

- (a) at infinity of curvature (b) between infinity and centre of curvature
(c) at centre of curvature (d) between centre of curvature and principal focus
(e) at focus between pole and focus.

3- Find the size, natural and position of images formed when an object of size 1 cm is placed at a distance fo 15 cm from when an concave mirror of focal length 10 cm. and also draw ray diagram.

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- 4- A concave mirror has radius of curvature 0.4 m. Find the position and size of the image of an object 0.2 m high placed 0.8 m in front of the mirror and also draw ray diagram.
- 5- A concave mirror focal length 10 cm is placed at a distance of 35 m from a wall. How far from the wall. can an object be placed so that its image formed by the mirror falls on the wall? Draw ray diagram.
- 6- Size of images of an object formed by a mirror having a focal length of 20 cm, is observed to be reduced $\frac{1}{3}$ rd of its size. At what distance the object has been placed from the mirror?. what is the nature of image and mirror?
- 7- Write down the use of following mirror-
- (a) Plane mirror
 - (b) Concave mirror
 - (c) Convex mirror

CHEMISTRY

- 1- Make a working model of electrolysis of water
- 2- Solve the all exercise question from chemical reaction and equation (NCERT)
- 3- Write and learn all types of chemical reaction.
- 4- Practice past papers of 2022 and 2024 as per the content covered. Revise the chapters and of at Least 4 chapter.

BIOLOGY

- Practice past paper (Paper 2,4 and 5) of 2015 and 2016 as per the content covered. Do it in a separate notebook and submit.
- 1- Read the newspapers and collect pictures and information regarding recent development in the field of Biology (any 5) make a portfolio for it.
- 2- Solve MCQ of lesson - 1 (Life process), write 30 MCQ in a different copy.
- 3- Make a chart paper from given diagram and colour its.
- (a) Human Digestive system
 - (b) Human Respiratory system
 - © Photosynthesis in plant.

COMPUTER

Instructions- Perform the task based on the activities given.

- 1- What is style? State its types in detail.
- 2- Write down the steps involved in mail merge wizard.
- 3- Perform and note down the steps of formatting feature of a pictures.
- 4- Read your book thoroughly and mark 50 MCQs and note down in separate notebook.

SOCIAL

Theme: "India and the World: Navigating Contemporary Challenges"

Instructions:

- Complete the activity assigned according to your roll number.
- Present your work in a file, scrapbook, or digital format with proper headings, visuals, and citations.
- Be prepared to present your findings in class after the vacation.

Learning Outcomes:

- Analyze recent national and international events and their implications.
- Understand the interplay between geography, politics, and economics in current affairs.
- Develop research, analytical, and presentation skills.

Roll Nos. 1-10: India's Economic Outlook in 2025

Prepare a report analyzing the United Nations' revised projection of India's GDP growth to 6.3% for 2025.

Include:

- Factors leading to the revision.
- Potential impacts on employment, inflation, and public welfare.
- Suggestions for policy measures to boost economic growth.

Roll Nos. 11-20: Counter-Terrorism Efforts in Punjab

Create a presentation on the National Investigation Agency's (NIA) raids on Babbar Khalsa International operatives in Punjab.

Include:

- Background of Babbar Khalsa International.
- Details of the NIA's operations and findings.
- Implications for national security and regional stability.

Roll Nos. 21-30: India's Indus Water Strategy

Draft a policy brief on India's consideration to alter water flow to Pakistan via new Indus river projects following recent tensions.

Include:

- Overview of the Indus Waters Treaty.
- Reasons for India's proposed changes.
- Potential international reactions and legal considerations.

Roll Nos. 31-35: 2025 India-Pakistan Heatwave

Design an infographic illustrating the causes, effects, and mitigation strategies related to the ongoing heatwave affecting India and Pakistan.

Include:

- Temperature anomalies and affected regions.
- Impact on agriculture, health, and daily life.
- Government and community responses.

Little Flower Children School, Kiriharapur, Ballia

My Daily Routine

Name: _____ | Class: _____ | Date: _____

Activity	Time Spent/ Time of Day	Remark(if any)
Wake up Time		
Morning Routine		
Exercise/ Yoga		
Breakfast		
Study Time 1		
Short Break		
Study Time 2		
Screen Time(Mobile/TV)		
Lunch		
Rest/ Nap		
Reading/ Hobby Time		
Evening Exercise/ Play		
Dinner		
Family Time		
Bed Time		

One thing I enjoyed today: _____

One good habit I followed today: _____