# Guru Amar Dass Public School, Goindwal Road, Kapurthala
## Grade :IX
## Summer Holidays
## HomeworkSession 2022-23

## Important Instructions

➢ Neatness and presentation are common parameters for most of the activities assigned. Please maintain the quality of work done.
➢ Holiday's homework will be assessed on certain parameters and marks/grade will be awarded accordingly.
➢ To score well in your upcoming exams strike a balance between your leisure time and studies.
➢ Marks of Holidays Homework will be added in your Mid-Term Examination.

### BE A WONDERFUL HUMAN BEING: KEEP IN MIND TO

➢ Do the homework independently, only ask for assistance from your parents or guardians
➢ Remember to have a wide mouth container filled with water outside your house for the birds to get respite from the scorching heat.
➢ Pray to almighty daily and thank for the blissful life that you enjoy.
➢ Be a helping hand to your parents and learn the skill of shared responsibility.
➢ Do the work by following the guidelines given with each work or activity
➢ Spend time with your parents and grandparents, their rich experience will help you overcome challenges with ease.

### HEALTHY LIFESTYLE BE YOUR PRIORITY

➢ Give prime importance to your health. Eat lots of fruits, do exercise and get into yoga
➢ Pledge for "Eat Right -Less Sugar, Less Oil and Less Salt"
➢ Wash hands frequently, especially before and after meal.
➢ Avoid sharing of towel, handkerchief, brush with others.
➢ Drink plenty of water.

### REQUEST TO PARENTS

➢ Summer vacation time is an opportunity to spend the quality time with your child and make him/her feel special of his unique identity.

**So just spare sometime and do the following:**

➢ Talk about Omni presence of **God** and humility being developed with regular prayers and doing good deeds as to offer best prayer to the God. Take them some religious places.
➢ Let them feed the poor and share things with needy people with love, let them enjoy the **Art of Giving**.
➢ Talk about the importance of parents and elders.

# ENGLISH

**Read the following passage and answer the questions that follow:**

**So You Want to be a Cartoonist**

What writers struggle to express through numerous newspaper columns, the cartoon manages in a pointed one-liner. Little wonder then, that the first thing most of us like to see when we pickup a newspaper is the cartoon. Simple though it may seem, making a cartoon is an art that requires a combination of hard work, training and a good sense of humour. Cartoonists say that the cartoons that make us laugh the most are in fact the cartoons that are hardest to make. Even celebrated cartoonists like R.K.Laxman admit that making a cartoon is not a piece of cake. Laxman says he has to wait for over six hours, which includes spending a lot of time scanning newspapers and television channels before any idea strikes him.

So how does one become a cartoonist? Which of us has the talent to make it? How can we master the rib-tickling strokes and the witty one-liners? How can we make people smile or laugh? There are few colleges or schools for cartoonists. Most cartoonists come from art colleges, while some learn the craft on their own. Most established cartoonists are of the view that no institute can teach you to make a cartoon. "You can pick up the craft, you may learn to sketch and draw in institutes, but no one can teach anyone how to make a good cartoon," says Uday Shanker, a cartoonist with Navbharat Times. While basics, like drawing and sketching can be learnt in an art college, and are important skills, these alone, do not make a good cartoonist. Because it's a question of one's creativity and sense of humour; two qualities one simply may not have. The advice established cartoonists give is that just because you can sketch, don't take it for granted that you will become a cartoonist.

Read the questions given below and write the option you consider the most appropriate in your answer sheet.

**Q1: What, according to Laxman, is the challenge in creating a good cartoon?**
(i) waiting for the right thought (ii) browsing newspapers to emerge. and television.
(iii) getting the right kind of (iv) good drawing and sketching training. skills.

**Q2: Which of these words BEST describes this passage?**
(i) humorous (ii) technical
(iii) challenging (iv) informative

**Q3: Of the many qualities that cartoonists should have, which of the following is not referred to directly but can be inferred from the passage?**
(i) knowledge of current (ii) knowledge of educational technologies. institutions.
(iii) knowledge of news and (iv) knowledge of different current affairs. languages.

**Q4: According to the passage, which group of people is of the opinion that one cannot learn to make a cartoon in institutions?**
(i) many struggling writers. (ii) highly creative artists.
(iii) well-respected cartoonist. (iv) all newspaper editors.

**Q5: "Don't take it for granted that you will become a cartoonist." Choose the option that is closest in meaning to the sentence.**
(i) Don't assume that you will (ii) Don't hope that you will become a cartoonist. become a cartoonist.
(iii) Don't believe that you will (iv) Don't imagine that you will become a cartoonist. become a cartoonist.

**Unseen Passage 2**

Ulhas Mandlik, 35, a power-loom owner from Ichalkaranji, Maharashtra, and his mother were homeward-bound one evening when heavy rain forced them to take shelter beneath a bridge. Not far away, a small group of labourers huddled together under a part of the cement housing above a 16 metre deep well used to pump water for irrigation.

Suddenly, Mandlik and his mother heard the labourers scream. When the two got to the well, they were told that a five year old boy named Hariya had fallen in through a side opening in the structure. Ignoring his mother's fears, Mandlik quickly knotted together lengths of flimsy rope belonging to the labourers and asked them to lower him into the dark well. "I hope the rope holds," he thought. As he descended, Mandlik noticed the metal rungs on the wall of the well. He grabbed hold of one and started climbing down, when he saw the boy clinging to a pipe running up the well's centre. Grabbing the child, Mandlik started to climb praying that the old rungs wouldn't give away and plunge them both into the churning water below. Their luck held and within a few minutes, Mandlik clambered to ground level and handed over Hariya to his sobbing father.

The man fell at Mandlik's feet and offered him some money as a reward. Refusing the cash, Mandlik took

Hariya and his family to a nearby eatery and offered them steaming tea to warm them up. Several organisations have honoured Mandlik for his bravery and presence of mind on that wet day three years ago. "I am happy I was at the right place at the right time," he says," and was able to

**Q1: What first drew Ulhas and his mother to the well?**
(i) shelter from the heavy rain. (ii) the return journey home.
(iii) news of a small boy's fall. (iv) the labourer's screams.

**Q2: What were Ulhas' mother's fears really associated with?**
(i) the rusted rungs inside the wall. (ii) the risk to the life of the rescuer.
(iii) the churning water inside (iv) doubts about the safety the well. of the boy.

**Q3: Which of the following could be a learning from the report?**
(i) it is best not to involve oneself (ii) one should not take shelter even in situations involving others. beneath a bridge in the rain.
(iii) one cannot predict when an (iv) metal rungs alongside the wall of accident may befall any person. a well may not always be useful.

**Q4: Which of these expressions best describes Ulhas in view of this incident?**
(i) disregard for an elder's (ii) disbelief in one's own abilities. warnings.
(iii) faith only in prayers for (iv) concern for others with no success. expectations.

**Q5: Which of these did Hariya's father express on receiving his son?**
(i) gratitude. (ii) relief.
(iii) anxiety. (iv) peace.
return a little boy to his family."


**Unseen Passage 3**
New Delhi: Atithi Devo Bhavah. To make visitors to the city feel welcome during the Commonwealth Games, India Tourism Development Corporation (ITDC) is set to train taxi and auto drivers, CISF personnel posted at monuments, dhaba owners, hotel staff etc. Participants will be taught English as well as courtesy and ways to communicate with tourists. At present, there is a shortage of trained guides in the city and with Commonwealth Games drawing close, the issue has to be addressed promptly.

With hundreds of historical sites to visit and each monument boasting its own unique history, foreign nationals are often left to fend for themselves and depend on tourist books and brochures for information. Language is another problem. Quite a contrast to facilities offered in tourist sites in western countries, where trained guides-proficient in several languages-are easily available to aid visitors apart from group-guided trips at regular intervals. Although the Archeological Survey of India (ASI) plans to introduce audio guide services in five languages at some world heritage sites our experts point that not a single monument or tourist place in the city has an interpretation centre where tourists can come and get all information pertaining to a particular site. ASI is also in the process of bringing out more brochures and guides for foreign visitors in the city. Experts say such facilities are crucial if the government wants to promote Delhi as a 'heritage city'. Various agencies like INTACH are also involved in the plans.

Under ITDC's plans, etiquette training for the Games will also be provided to residents who offer rooms to foreigners under Delhi government's bed and breakfast scheme. "House-owners will be given hospitality related training and a brief of Indian tourism scenario. Most visitors generally question their hosts on information about the city so they will be provided information on the golden triangle- Delhi, Agra and Jaipur as well as where tourists should go visiting in Delhi," said an official.

Read the questions given below and write the option you consider the most appropriate in your answer sheet.

**Q1: What are the initiatives to be taken up by the India Tourism Development Corporation to make the visitors feel welcome during the Commonwealth Games?**
(i) training of drivers, CISF personals, dhaba owners and hotel staff.
(ii) promoting the sale of tourist books and brochures.
(iii) arranging audio cassettes and tapes on tourism.
(iv) constructing more bed and breakfast homes.

**Q2: How have the western countries managed to offer aid and better facilities to their tourists?**
(i) by providing good tourist books and brochures.
(ii) by providing well-behaved and courteous guides.
(iii) by training guides in several languages and group-guided trips at regular intervals.

(iv) by allowing foreign nationals to fend for themselves.

**Q3: Apart from the guides and the guided tours, Archeological Survey of India has expressed the need for establishing _____ at historical sites to help tourists.**
(i) interpretation centres. (ii) rehabilitation centres.
(iii) cessation centres. (iv) training centres.

**Q4: What steps have been taken by ASI to promote Delhi as a heritage site?**
(i) making brochures very informative and training the residents.
(ii) bringing out more brochures and involving other agencies in planning and visitor management.
(iii) offering tourists all sources of comfort for their stay and visits to historical sites.
(iv) providing owners of bed and breakfast homes information about Delhi, Agra and Jaipur.

**Q5: _____ are to be provided to residents who offer rooms to foreigners under ITDC's plan**.
(i) comfortable stay, friendly and hospitable treatment
(ii) etiquette training, hospitality treatment
(iii) better tourist guides and interpretation centres
(iv) visits to the golden triangle cities.

**Unseen Passage 4**
Surgical Instruments Designed Due to Necessity
Necessity, they say, is the mother of invention. And Indian doctors have been quite creative when hamstrung by few or no tools to perform specific surgeries. They simply design it themselves at one-fourth the price they are sold abroad. In fact, some of their innovations are priced at as much as hundreds of dollars abroad.
Take 47-year-old Dr Burjor P Banaji, pioneer of Lasik surgery in India. He's invented over a dozen surgical instruments. When this senior eye surgeon at  Max Eye Care started Lasik, there were few surgeons doing it worldwide and no specific instruments were available either. "As I want things super-perfect, I designed a whole slew of instruments that made my surgery more efficient," says Banaji. The most popular instruments are Banaji Lasik Shield and Banaji Lasik Spatula and Canulae. "It was simple. I had the designs in my head. Putting them down on paper was the simplest thing," he says. Instruments manufacturers and large multinationals in the US snapped them up. "They would send me computer generated drawings which I would correct and send back. Their level of execution was astounding. Within two weeks of the designs being finalised, the instruments were in the world market."
His instruments are priced at hundreds of dollars each in the US, and are also sold in Switzerland, South America, Korea, Eastern Europe, Africa and Japan. They're available in India at a fraction of the price.
—
*Shobha John/TNN*
**Write the option that you consider the most appropriate in your answer sheets**

**Q1:** Why have some Indian doctors created their own surgical tools?
(i) they have no tools to perform specific surgeries
(ii) they have a hamstring problem
(iii) the tools they get from abroad cost four times as much
(iv) they can sell these tools at a very high price.
**Q2:** What has Dr Burjor P Banaji created?
(i) Lasik surgery
(ii) Max Eye Care Centre
(iii) two surgical instruments called Banaji Lasik Shield and Banaji Lasik Spatula and Canulae
(iv) more than a dozen instruments for operating on the eye.
**Q3:** Where does Dr Banaji get the instruments manufactured?
(i) India (ii) the United States of America
(iii) Switzerland (iv) Japan
**Q4:** The term hamstrung refers to …………………………
(i) restricted (ii) helped
(iii) harmed (iv) liberated
**Q5:** What does the phrase slew of instruments refer to?

(i) a wide range of instruments (ii) instruments used for slaying
(iii ) tools of a similar nature (iv) surgical instruments

**Complete the paragraph that follows by filling up the gaps with the most appropriate option from those given:**

1. It was a rainy day. Traffic **(a)**………… busy on the road. A **(b)**………… hit a car badly in the market. Five commuters were badly injured while one person **(c)**………………….on the spot. The injured persons were taken to the nearest hospital. The local people were of great help.
**(a)** (i) will be             (ii) was               (iii) is                    (iv) has been
**(b)** (i) speeding bus     (ii)  speeded bus       (iii) sped up bus       (iv) speed bus
**(c)** (i) was died           (ii)  had died          (iii) died                  (iv) is died


**2.** For opening a bank A/C you **(a)**……………….. to select a bank of your choice. You **(b)**……………… to visit the bank and contact the Customer Care Officer there. Thereafter you should meet the concerned Authority. You **(c)**………………… to submit the required documents. Don't forget to visit the bank for collecting the passbook and ATM card.
**(a)** (i) require   (ii) are required       (iii) will require        (iv) have to require
**(b)** (i) will         (ii) should            (iii) need                  (iv) are
**(c)** (i) must      (ii) shall            (iii) are required        (iv) should


**2.** Shoes **(a)**…………….. of dust with a brush. A layer of polish **(b)**……………….. over the shoes. One should wait a little till the polish **(c)**………………….. Then shoes are brushed to shine.
**(a)** (i) is cleaned        (ii) will be cleaned       (iii) are cleaned        (iv) has to be cleaned
**(b)** (i) has coated       (ii) need be coated       (iii) is coated            (iv) will be coated
**(c)** (i) was died          (ii)  had died              (iii) died                  (iv) is died


**1**. Servant: Please give me leave for a week.
Master: Why do you need such a long leave?
Servant: I have to visit my village.
Master; O.K. but don't out stay your leave.
The servant requested his master (a) _____ for a week. The master asked him why (b)_____ such a long leave. At this, the servant said that he had to visit his village. The master acceded to his request but asked him (c) _____ leave.
**2.** Beggar: Please give me some money.
Lady: Why don't you do some work?
Bagger: Madam, begging is also a work.
A Beggar requested a lady (a) _____. The lady asked him why (b) _____ some work. At this the beggar said (c) _____.
**3.** John: Do you know swimming?
David: No, can you teach me how to swim?
John: of course I can. Come to my place tomorrow at 5.00 p.m.
John asked David (a) _____. David replied in negative and asked him (b) _____ how to swim. John replied in affirmation and asked him (c) _____ the next day at 5.00 p.m.
**4.** Principal: Why do you want a character certificate?
Student: Sir, I want to apply for a part time job.
Principal: Have you brought your progress report?
Student: No sir, I have not brought
The Principal asked the student (a) _____. The student replied respectfully (b) _____ The principal asked him further (c) _____. The student replied very respectfully saying that, he had not brought that.

**5.** Madam: Have any of you seen a camel's skin?
Boy: Yes, Madam
Madam: Where did you see it?
A school mistress asked her students (a) _____ one little boy shouted out (b) _____. The madam aksed him _____

**6.** Riya: Can I help you? I have plenty of spare time.
Rachit: Sare you can I have a problem in solving this sum which is very difficult.
Riya: Give the paper and see the solution.
Riya asked Rachit (a) _____ Rachit replying affirmatively said she could surely as (b) _____
Riya asked Rachit (c) _____

**7.** Miss Tina: Anu, you spent time on this home assignment, and it really shows!
Anu Thanks miss Tina! You mean it's that good?
Miss Tina: No. I mean it's covered with stains from a whole evening's worth of snacks.
Aru's teacher Miss Tina told him that (a) _____ the pleased Anu (b) _____ and asked her (c) _____ to that the angry Miss Tina replied that what she meant, was that it was covered with stains.

## 1. Composition
a. Complete the story in 150-200 words.
   It was a hot day, A blind man was crossing the road, suddenly a carcame……
b . Write a  diary expressing any one positive change which you will bringin  yourself during the summer vacations  (80-100 words)
c. Suppose you are Kezia's father (lesson- The Little Girl) . Write a diaryentry expressing your feeling after having beaten Kezia for a mistake.

## 2. Creation with quote
Describe the following quote in your own words (80-100 words) in thecontext of the Lesson: The Lost Child.
'You realize the value of something only when you lose it'

**NOTE: Revise whole syllabus of Periodic Test – 1**

# MATHEMATICS

## Solve the Following Worksheets:

## WORKSHEET – 01

### SECTION -A

1. Find two rational numbers between   $\frac{1}{2}$  and $\frac{1}{3}$

2. Express linear equation   **5x = - 5y+1.23** in the form of **ax+by+c=0** and find the value of **a,b and c**.

3. State the quadrant in which points lie **(-5,6), (-4 ,-3)**

4. Find area of Δ **ABC** in which ∠**B =90°** and **AB=8cm, AC=10cm.**

### SECTION-B

5. Express **0.2$\overline{25}$** in form of  $\frac{p}{q}$ , where **p** and **q** are integers and **q≠0**.

6. Evaluate  $8(216)^{\frac{1}{3}} -2(32)^{\frac{1}{5}} +(16)^{\frac{3}{4}}$

7. Plots the points **A (2,3), B (6,3), C (5,0) and D (1,0)** on cartesian system and join these points in order and name the shape thus obtained.

8. Find two solutions of **3x+2y = 12.**

### SECTION-C

9  Rationalize  $\dfrac{3+5\sqrt{2}}{3-5\sqrt{2}}$

10. Locate $\sqrt{2}$ on number line and give the steps of construction.

11. Simplify  $\dfrac{3}{\sqrt{3}+\sqrt{2}} - \dfrac{2}{2+\sqrt{3}}$

12. Find the value of **K**, if **( 2k-1,3k+2 )** is the solution of the equation **3x-5y=7.**

### SECTION-D

13. Represent $\sqrt{9.6}$ on number line and give steps of construction.

14. Find area of **Δ ABC** by Heron´s Formula if **AB=10cm, BC=12cm and CA=8cm.**

15. Draw the Graph of **7x+2y=14.**

16. Plot the following points **A (2,0), B (4,0) and C (4,6)** on graph paper and join these points in order   also find the area of figure so obtained.

# WORKSHEET – 02

### SECTION -A

1.  Find two rational numbers between    $\dfrac{2}{3}$  and $\dfrac{3}{4}$

2.  Express linear equation   **-8x - 5y=13** in the form of **ax+by+c=0** and find the value of **a,b and c.**

3.  State the quadrant in which points lie **(-5 ,8.2),(6,1.23)**

4.  Find area of Δ **PQR** in which ∠**Q =90°** and **PQ=3cm, PR=5cm.**

### SECTION-B

5.  Express **5.41$\overline{23}$** in form of $\dfrac{p}{q}$ , where **p** and **q** are integers and **q≠0**.

6.  Evaluate   $12(64)^{\frac{3}{2}} - 5(25)^{\frac{5}{2}} - (81)^{\frac{3}{4}}$

7.  Plots the points **A (2,0), B (0,-2), C (2,-4)** on cartesian system and join these points in order and name the shape thus obtained.

8.  Find four solutions of **x+2y = 7.**

### SECTION-C

9  Rationalize  $\dfrac{\sqrt{5}+6}{4-5\sqrt{2}}$

10. Locate $\sqrt{3}$ on number line and give the steps of construction.

11. Simplify $\dfrac{3}{3\sqrt{3}+4\sqrt{2}} - \dfrac{2-\sqrt{3}}{2+\sqrt{3}}$

12. Find the value of **m**, if $\left(\dfrac{m}{3}, 2m+2\right)$ is the solution of the equation **5x+6y=2.**

### SECTION-D

13. Represent $\sqrt{8.6}$ on number line and give steps of construction.

14. Find area of **Δ LMN** by Heron´s Formula if **LM=8cm, MN=14cm and NL=16cm.**

15. Draw the Graph of $\dfrac{2}{3}$x+2y=14.

16. Plot the following points **A (0,0), B (2,0),C (2,2) and(0,2)** on graph paper and join these points in order and  also find the area of figure so obtained.

# WORKSHEET – 03

### SECTION -A

1. Find two rational numbers between $\quad\mathbf{4}$ and $\mathbf{5}$

2. Express linear equation **3.5x - 2y+1.23=0** in the form of **ax+by+c=0** and find the value of **a,b and c**.

3. State the quadrant or axis in which points lie **(6,-5) and (0,-6)**

4. Find area of Δ **MNO** in which ∠**N =90°** and **NO=12cm, OM=13cm.**

### SECTION-B

5. Express **12.$\overline{6}$** in form of $\dfrac{\mathbf{p}}{\mathbf{q}}$ , where **p** and **q** are integers and **q≠0**.

6. Evaluate $\quad 45(36)^{\frac{5}{2}} + 12(16)^{\frac{3}{2}} + \sqrt{225}$

7. Plots the points **A (0,2), B (-1,0), C (3,0) and D (4,2)** on cartesian system and join these points in order and name the shape thus obtained.

8. Find three solutions of $\dfrac{3}{2}$x+2y = 5.

### SECTION-C

9  Rationalize $\dfrac{3+5\sqrt{2}}{3-5\sqrt{2}}$

10. Locate $\sqrt{5}$ on number line and give the steps of construction.

11. Simplify $\dfrac{3}{\sqrt{5}+\sqrt{3}} - \dfrac{3}{\sqrt{5}-\sqrt{3}}$

12. Find the value of **n**, if **( 4n-1,$\dfrac{n}{5}$ )** is the solution of the equation **2x-6y=9.**

### SECTION-D

13. Represent $\sqrt{10.5}$ on number line and give steps of construction.

14. Find area of **Δ ABC** by Heron´s Formula if **AB=13cm, BC=11cm and CA=6cm.**

15. Draw the Graph of **5x-y=15.**

16. Plot the following points **A (4,-3), B (0,-3) ,C (0,0) and (4,0)** on graph paper and join these points in order   also find the area of figure so obtained.

# WORKSHEET – 04

**Section – A**                                                                4x1=4

1. Express the linear equation 2x+3y-6=0 in the form ax+by+c=0 and indicate the values of a, b and c.

2. In which axis do the point (3,0) lies?

3. Write the abscissa and ordinate of point (–3, –4).

4. Check whether (1,3) is the solution of the equation 2x–y=6 or not.

**Section – B**                                                                4x2=8

5. Convert $3.\overline{12}$ in the form $\frac{p}{q}$ where p and q are integers with $q \neq o$

6. Find four rational numbers between $\frac{7}{8}$ and $\frac{5}{7}$

7. Find the value of 'a' if the point (2,4) lies on the graph of equation 5y = ax + 6.

8. In which quadrant, do the points (-5, 8), (1, 2), (-3, -6) and (4, -1) lies?

**Section – C**                                                                4x3=12

9. Plot the points P(1,0), Q(4,0) and S(1,3). Find the coordinates of point R such that PQRS is a square.

10. Find the area of a triangle whose sides are 56cm, 60 cm and 52 cm.

11. Find three different solutions of  3x + 8y = 27.

12. The unequal side of an isosceles triangle is 6cm and its perimeter is 24 cm. find its area.

**Section – D**                                                                4x4=16

13. If  $\frac{\sqrt{5} + \sqrt{3}}{\sqrt{5} - \sqrt{3}} = a + \sqrt{15}\, b$, find the values of a and b.

14. Find the value of $4\,(216)^{\frac{2}{3}} + (256)^{\frac{3}{4}} - 2\,(243)^{\frac{1}{5}}$

15. The sides of a triangular field are in the ratio 13:12:5 and its perimeter is 450m. Find the area of the triangular field.

16. Rajesh and Kunal, two students of class IX together contributed ₹1000 for old age home to help old people left by their children. Write a linear equation and draw its graph.

**Solve**

1. **Lab Manual Activities 1 to 5 and 7 to 8**

2. **Revise All the Periodic Test – I Syllabus.**

# SCIENCE

## Physics Worksheet

1. Calculate the acceleration of a body which starts from rest and travels 87.5m 5 sec?

2. Calculate the acceleration and distance of the body moving with 5m/s2 which comes to rest after traveling for 6sec?

3. A body is moving with a velocity of 12m/s and it comes to rest in 18m, what was the acceleration?

4. A body starts from rest and moves with a uniform acceleration of 4m/s2 until it travels a distance of 800m, find the find velocity?

5. The driver of a car traveling along a straight road with a speed of 72KM ph observes a signboard which give the speed limit to be 54KM ph. The signboard is 70m ahead when the driver applies the brakes0 calculate the acceleration of the car which will cause the car to pass the signboard at the stated speed limit?

6. 6. Two cars A and B are moving along in a straight line. Car A is moving at a speed of 80KMph while car B is moving at a speed 50KMph in the same direction, find the magnitude and direction of

7. (a) the relative velocity of car A with respect to B

8. (b) The relative velocity of car B with respect to A.

9. 7. A car moving with a certain velocity comes to a halt if the retardation was 5m/s2, find the initial velocity of the car?

10. 8. A ball starts from rest and rolls down 16m down an inclined plane in 4 s. (a) What is the acceleration of the ball?

11. (b) What is the velocity of the ball at the bottom of the incline?

12. 9. Differentiate between distance and displacement?

13. 10. Derive mathematically the first equation of motion V=u + at?

14. 11. Define uniform velocity and uniform acceleration?

15. 12. Differentiate between scalars and vectors?

## Chemistry Worksheet

1. Name the three states of matter. Give one example of each.

2. What are the two ways in which the physical state of matter can be changed?

3. Explain how gases can be liquefied?

4. What is sublimation? Give examples.

5. Define latent heat of fusion.

6. Differentiate between evaporation and vaporization.

7. What is full form of CNG and LPG?

8. What is dry ice?

9. Why it is advised to put wet clothes strips on the forehead of a person suffering from high fever?

10. Convert the following thermometer readings into Kelvin:

   (a) - 100°C (b)200°C

11. Which phenomenon occurs during the following changes?

   (i) Formation of clouds,

   (ii) Drying of wet clothes,

   (iii) Wax melts in the sun,

   (iv) Size of naphthalene balls decreases.

12. Give reason:

   (a)Gases exert pressure on the walls of the container.

   (b) Evaporation causes cooling.

## Biology Worksheet

1. Name two structures found in plant cells but not in animal cells.

2. Plasma membrane is made up of which two components?

3. Which organelle is involved in the formation of lysosomes?

4. What is a nucleoid?

5. Which cell organelle controls most of the activities of the cell?

6. What are the functional regions of a cell?

7. Differentiate between diffusion and osmosis.

8. What is plasmolysis?

9. What is the function of vacuoles?

10. When we put raisins in water, why do they swell?

11. What is membrane biogenesis?

12. Name the cell organelle for the following:

(a) Present only in plant cell, provides strength and rigidity to the cell.

(b) It is the site for lipids synthesis and helps in detoxification of drugs.

(c) The inner membrane is folded to form cristae, it has its own DNA and proteins.

(d) It helps in the formation of lysosomes.

(e) It imparts colour to the fruit and flowers.

- **Complete the Lab Manual of Physics, Chemistry and Biology.**
- **Revise whole Periodic Test- I Syllabus.**

# SOCIAL SCIENCE

1). Make a project on Water Conservation (12-15 pages).
2). Make timeline of Chapter -1 ( History) The French Revolution
3). Make a poster on Democracy
4). Make an assignment on Organization of Production (12-15 pages)
5). Revise full syllabus of PT 1 Examination.

# PUNJABI

1. ਚਰਖੇ ਦਾ ਮਾਡਲ ਤਿਆਰ ਕਰੋ ਤੇ ਉਸ ਬਾਰੇ ਸੰਖੇਪ ਵਿੱਚ ਲਿਖੋ।
2. ਆਪਣੇ ਮਨਪਸੰਦ ਕਵੀ ਦਾ ਨਾਂ ਅਤੇ ਉਸਦੀ ਕਿਹੜੀ ਰਚਨਾ ਪਸੰਦ ਹੈ ਉਸ ਦੇ ਬਾਰੇ ਲਿਖੋ।
3. 'ਕੰਨਿਆ ਭਰੂਣ ਹੱਤਿਆ' ਇੱਕ ਭਿਅੰਕਰ ਸਮਾਜਿਕ ਵਿਸ਼ੇ ਉੱਪਰ ਆਪਣੇ ਵਿਚਾਰ ਲਿਖੋ।
4. ਆਪਣੀ ਵਿਆਕਰਨ ਦੀ ਪੁਸਤਕ ਵਿੱਚ ਪੰਨਾ ਨੰਬਰ 474 ਉੱਪਰ ਦਿੱਤੀ ਤਸਵੀ ਨੰਬਰ 1 ਅਤੇ 5 ਦਾ ਵਰਨਣ 50–60 ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖੋ।
5. ਕੀ ਤੁਹਾਡੇ ਵਿਚਾਰ ਅਨੁਸਾਰ ਨਵੀਂ ਸੱਭਿਅਤਾ ਨੂੰ ਅਪਨਾਉਣਾ ਗਲਤ ਹੈ? ਕਿਉਂ ਜਾਂ ਕਿਉਂ ਨਹੀਂ ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖੋ।

# INFORMATION TECHNOLOGY

**Make a practical file of the following topics :-**
- ❖ **UNIT – 1 :-**
  - ➢ I.T. and ITes
  - ➢ BPO (Business processor outsource) and Benefits of BPO.
- ❖ **UNIT – 2 : -**
  - ➢ Purpose of various keys on the keyboard
  - ➢ Touch typing
- ❖ **UNIT – 3 : -**
  - ➢ Introduction to APACHE OPENOFFICE WRITER
  - ➢ Components of a Writer Window.

**Read the Unit – 3 Digital Documentation and solve all the sessions.**

# ART & CRAFT

- ❖ Prepare Paintings on the given topics:-
  - ➢ 4 Paintings – **Landscape**
  - ➢ 4 Paintings – Still Life
  - ➢ Make a article with Best Out of Waste Material.

# CELEBRATIONS

## World Environment Day Activity

Let's nurture the nature so that we can have a better future. Hurray! its time to celebrate the World Environment Day on 5<sup>th</sup> June. Even a small change can make a huge difference to our world. Are you up for the change challenge?

**Plant trees on the eve of World Environment Day. Click the photographs and send to your Form Educators**



## FATHERS' DAY CELEBRATION

**On the account of Fathers' Day Celebration on 19 June, 2022, Make a favourite dish of your father** with the help of your mother and serve it to your father. **Click the photographs and short clips** and send to your Form Educator.



## INTERNATIONAL YOGA DAY

To keep you and your family members fit it's important to do yoga daily.

We celebrate YOGA DAY on 21st June so on that day all the Family members should do yoga and send the photos and videos to the Form Educator.