

DELHI PUBLIC SCHOOL, DAULATPUR
Summer Vacation Home Work
Class IX , Subject – Science (Chemistry)
Revision Worksheet -1

Note- Learn and Revise PA -1 Syllabus of Chemistry

Chapter 1- Matter in Our Surroundings

Q1. What is the effect of humidity on evaporation ?

Q2. What is the effect of impurity

(i) On the melting point of a solid ?

(ii) On the boiling point of a liquid

Q3. What is the criterion of purity of a

(i) Solid ?

(ii) Liquid ?

Q4. What is the importance of boiling point of a substance ?

Q5. Ice floats over water , why ?

Q6. What is the significance of melting point of a substance ?

Q7. What are the difference between boiling and evaporation ?

Q8. Why surgeons often spray some ether on skin before performing minor surgery ?

Q9. Define latent heat of fusion of ice .

Q10. Match measurable quantities and their units .

Quantity	Unit
Temperature	Kilogram
Length	Newton
Mass	Kelvin
Weight	Cubic metre
Volume	Pascal
Density	Metre
Pressure	Kilogram per cubic metre

DELHI PUBLIC SCHOOL, DAULATPUR

CLASS - IX

Subject- Science

Summer Vacation Homework

Revision Worksheet-2

Q1- Why are lysosome known as suicidal-bags of a cell?

Q2- Do you agree that ‘A cell is a building unit of on organism’. If yes, explain why?

Q3- Why does the skin of your finger shrink when you wash clothes for a long time?

Q4- Why is endocytosis found in animals only?

Q5- A person takes concentrated solution of salt, after sometime, he starts vomiting. What is the phenomenon responsible for such situation? Explain.

Q6- Name any cell organelle which is non-membranous.

Q7- If you are provided with some vegetables to cook. You generally add salt into the vegetables during cooking process. After adding salt, vegetables release water. What mechanism is responsible for this?

Q8- Write the name of different plant parts in which chromoplast, chloroplast and leucoplast are present.

Note – Learn And Revise PA-1 Syllabus.

DELHI PUBLIC SCHOOL, DAULATPUR

CLASS – IX

Summer vacation work

Subject-Science

Worksheet-3(Ch-8 Motion)

1. The displacement of a moving object in a given interval of time is zero. Would the distance travelled by the object also be zero? Justify your answer.
2. A motorcyclist drives from A to B with a uniform speed of 30 km h^{-1} and returns back with a speed of 20 km h^{-1} . Find its average speed.
3. Define acceleration and state its SI unit. For motion along a straight line, when do we consider the acceleration to be (i) positive (ii) negative? Give an example of a body in uniform acceleration.
4. A car travels at 54 km/h for first 20 s , 36 km/h for next 30 s and finally 18 km/h for next 10 s . Find its average speed.
5. Distinguish between uniform motion and non-uniform motion. Is uniformly accelerated motion uniform motion? Give one example each of uniform and non-uniform motion.
6. The speedometer readings of a car are shown below. Find the acceleration of the car and its displacement.

Time	Speedometer
9:25 am	36 km/h
9:45 am	72 km/h

7. Define uniform circular motion and give example of it. Why is it called accelerated motion?
8. How can you find the following?
 - Velocity from a displacement time graph.
 - Acceleration from velocity time graph.
 - Displacement from velocity time graph
 - Velocity from acceleration time graph.
9. Draw a diagram to show the motion of a body whose speed remains constant but velocity continuously changes
10. Draw a velocity time graphs for the following situations :
 - When body is moving with uniform velocity.
 - When body is moving with variable velocity but uniform acceleration.
 - When body is moving with variable velocity but uniform retardation
 - When body is moving with a variable velocity and variable acceleration.
11. State which of the following situations are possible and give an example of each these situation.
 - a. Body moving with constant acceleration but with zero velocity
 - b. A body moving horizontally with an acceleration in vertical direction.
 - c. A body moving with a constant velocity in an accelerated motion.
12. Name the physical quantities denoted by
 - a. The slope of the distance time graph
 - b. The area under velocity time graph
 - c. The slope of velocity time graph.

DELHI PUBLIC SCHOOL, DAULATPUR 2021-22
ENGLISH, CLASS IX
SUMMER BREAK HOMEWORK
WORKSHEET

LET US CHECK OUR GRAMMAR SKILLS-

Q1: A group of students from Kerala visited your school and asked the following questions.

- Who is your principal?
- Does your school have a boarding facility?
- Is there a basketball court?
- Are there any sports facilities?
- When will the exams be held?
- How many students study in your school?
- Do you have assembly on all working days?
- Do you organize any special programmes on the Republic Day?
- Do you like your uniform?
- Do you get an opportunity to engage in extracurricular activities?
- Do you get tasty food in the school canteen?

Now report these questions to your teacher. You may use the following phrases:

They asked...

They wanted to know...

They enquired...

They wondered...

They wished to know...

Q2: Read the dialogue given below and complete the paragraph.

Soumya: Nice to meet you. Where have you been all these days?

Kirthi: I went to Pune to attend a seminar on environmental pollution.

Soumya: How was the seminar?

Kirthi: Quite informative and worth attending.

Now report their conversation.

Soumya all those days. Kirthi on environmental pollution. Soumya wanted to know Kirthi told

Q3: Report the following questions using the hints given against them. An example is given below.

‘Where do you live?’ She asked

She asked **where I lived**.

1. ‘Can a flea climb a tree?’ The boy asked the teacher

2. ‘Do you like cricket?’ He asked me

3. ‘Can you get me a glass of water?’ I asked the little girl

.....

4. ‘Can I borrow your car?’ My neighbour asked me

5. ‘Can a snake eat a cake?’ The boy wondered

6. Did you win the first prize?’ I want to know

7. ‘Did the dog bit the boy?’ The man asked

Answers to Q1:

They asked us **who our Principal was**.

They wanted to know **if our school had a boarding facility**.

They wondered **if there was a basketball court**.

They asked **if there were any sports facilities**.

They wanted to know **when the exams would be held**.

They asked **how many students studied in our school**.

They asked **if we had assembly on all working days**.

They wanted to know **if we organized any special programmes on Republic Day**.

They wondered **if we liked our uniform**.

They asked us **if we got an opportunity to engage in extracurricular activities**.

They wanted to know **if we got tasty food in the school canteen**.

Answers to Q2:

Soumya asked Kirthi **where she had been** all those days. Kirthi replied **that she had gone to Pune to attend a seminar** on environmental pollution. Soumya wanted to know **how the seminar was**. Kirthi told her that it was quite informative and worth attending.

Answers to Q3:

1. The boy asked the teacher **if a flea could climb a tree**.

2. He asked me **if I liked cricket**.

3. I asked the little girl **if she could get me a glass of water**.

4. My neighbour asked me **if he could borrow my car**.

5. The boy wondered **if a snake could eat a cake**.

6. I want to know **if you had won the first prize**.

7. The man asked **if the dog had bitten the boy**.

DELHI PUBLIC SCHOOL, DAULATPUR 2021-22
ENGLISH , CLASS IX
SUMMER BREAK HOMEWORK
ASSIGNMENT

Me Time

Write 2 diary entries during your vacations, one diary entry for one week. Each week you will talk about a new experience you had with the people around you.

It can also have the mention of how the world is experiencing a herculean change in terms of personal life, social life and other aspects you think according to your prospective.

PPT

Prepare a PPT (7 slides) on a true story on ‘Rags to Riches’, an example of a famous personality.

Answer the following questions in 100-120 words.

Q: Will the existing schools and teachers become totally irrelevant in future ‘school’? Give a reasoned answer. (Chapter- The Fun They Had)

Q: Write a brief note on the theme of Robert Frost’s poem ‘The Road Not Taken’. (Poem- The Road Not Taken)

DPS DAULATPUR
ASSIGNMENT
CH-2, CONSTITUTIONAL DESIGN (POLITICAL SC.)

ANSWER THE FOLLOWING QUESTIONS IN SHORT:

- Q 1 Why has the Parliament been given the right to amend the Constitution?
- Q 2 What is the basic feature of the Federal form of government?
- Q 3 What are fundamental right?
- Q 4 What do you understand by the term Welfare State?
- Q 5 What was the most significant contribution of the Karachi session?
- Q 6 Who introduced the Objective Resolutions in the Constituent Assembly?
- Q 7 Briefly explain the term "Bill of Rights".
- Q 8 What is a coup?
- Q 9 What is Preamble?
- Q 10 When was Indian constitution was enacted?

ANSWER THE FOLLOWING QUESTIONS IN 3-5 POINTS:

- Q 1 What is Apartheid?
- Q 2 What is segregation?
- Q 3 Write a note on African National Congress.
- Q 4 When and how did South Africa get a new government?
- Q 5 What was the aim of the “Black” leaders of the new democratic South Africa?
- Q 6 What were the main features of South African Constitution?
- Q 7 What does the preamble to the Constitution of South Africa say?
- Q 8 What were Nelson Mandela’s views on South Africa’s Constitution?

DELHI PUBLIC SHOOL DAULATPUR
Class: IX

Subject – Social Science

WORKSHEET -2

1. What are the factors of production?
2. Name the main production activity of Palampur.
3. What capital is needed as first priority to set up a jaggery manufacturing unit?
4. Give a few examples of fixed capital.
5. Name any one item of working capital.
6. What is the longitudinal and latitudinal extension of India?
7. Name the island group of India lying in the Arabian Sea.
8. What is the southernmost latitude of India?
9. What is a narrow channel of sea which separates two land masses known as?
10. What is the total length of the coastline of the mainland of India including its islands?
11. If there was no Himalaya, India would have been a cold dessert. Explain.(80 -100 words)
12. On the Indian Political map mark the following:-
 1. A mountain range in the Ladakh region
 2. A plateau rich in minerals
 3. A meteorological station
 4. The strait separating India from Srilanka
 5. A river joining the Ganga from the South in Uttar Pradesh

Note:- 1. This worksheet is mandatory for all the students.
2. Holiday Homework is of 5 marks

Delhi Public School, Daulatpur
Mathematics Holiday Homework
Class IX

- Q1. Make any two project/chart: (*marks will be considered for Subject Enrichment)
- (i) Make a project on Pascal's triangle.
 - (ii) Make a chart of all the polynomials identities and drive them separately in your notebook.
 - (iii) Make 10 puzzles using linear equations or on linear equations.

Solve the following:

- Q2. How many rational numbers can be inserted between two rational numbers?
- Q3. Simplify: $(32)^{\frac{2}{5}}$.
- Q4. If $x \geq 0$, then what is the value of $\sqrt{x\sqrt{x\sqrt{x\sqrt[3]{x}}}}$?
- Q5. If m and n are two rational numbers and $m^n = 32^{(5-n)}$, then find the value of $n^{m(n+2)}$.
- Q6. Find two rational numbers between $\frac{3}{5}$ and $\frac{5}{3}$.
- Q7. If $x = \sqrt{5} + 2$, then find the value of $x^2 - \frac{1}{x^2}$.
- Q8. If $x = \frac{\sqrt{5}+2}{\sqrt{5}-2}$ and $y = \frac{\sqrt{5}-2}{\sqrt{5}+2}$, then show that $x^2 - y^2 = -144\sqrt{5}$.
- Q9. If $y + 1$ is a factor of the polynomial $3y^2 + my$, then find the value of m .
- Q10. What is the value of $525^2 - 475^2$? (without actually squaring them)
- Q11. Find the remainder when $x^3 - ax^2 + 6x - a$ is divided by $x - a$.
- Q12. Factorise: $\left(5x - \frac{1}{x}\right)^2 + 4\left(5x - \frac{1}{x}\right) + 4$; $x \neq 0$.
- Q13. Expand $(4x - 2y - 3z)^2$ using suitable identity.
- Q14. If $x^2 - \frac{1}{x^2} = 6$, then find the value of $x^3 - \frac{1}{x^3}$.

ग्रीष्मावकाश गृहकार्य (2021–22)

हिंदी

कक्षा—9.

1. 'कोरोना महामारी' ने जीवन को किस तरह प्रभावित किया? इसके सकारात्मक तथा नकारात्मक दोनों पहलुओं को ध्यान में रखते हुए लगभग 250 शब्दों में अपने विचार लिखिए।
2. निम्नलिखित उपसर्गों से 5—5 शब्द बनाकर पुस्तिका में लिखिए।
प्र, प्रति, अति, अधि, अनु
3. आपने देखा होगा कि मीडिया द्वारा प्रस्तुत की गई घटनाएँ कई बार समस्याएँ बन जाती हैं, ऐसी किसी घटना का उल्लेख कीजिए।

DELHI PUBLIC SCHOOL, DAULATPUR

Class – IX

Topic- Basic ICT Skills

Revision worksheet-1

- Q1. Give Four uses of ICT in your daily life.**
- Q2. Which company has acquired WhatsApp and for how much?**
- Q3. State any three properties of browsers.**
- Q4. Describe any three social media technologies.**
- Q5. Write down the uses of any five peripheral devices.**
- Q6. Fill in the blanks:**
- (i) Process creation and process termination in computer system is done by _____
- (ii) You can never store two files of the same name in the same _____
- (iii) The parts of computer that can be touched are called _____
- (iv) _____ is used to draw figures on the screen.
- (v) WWW stands for _____
- (vi) _____ is used for taking input a sound.
- (vii) _____ stores the data permanently.

**DELHI PUBLIC SCHOOL
DAULATPUR, HARIDWAR**

Revision worksheet-2

Class X

Q1. List the different types of verbal communication. Include examples for each verbal communication type.

Q2. Write any three qualities of self- confident persons.

Q3. What are the advantages of non-verbal communication?

**Q4. Write two sentences of each type of sentence —
Assertive, question, exclamatory and Imperative.**

Q5. Draw any two common signs used for visual communication

Q6. What are the benefits of positive thinking?

Q7. In SWOT analysis, what does 'S', 'W', 'O' and 'T' stands for? Explain.