



SHIKSHA BHARATI GLOBAL SCHOOL
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Dear Children,

It is blazing hot in summer and we begin to look forward for our summer vacations when we can relax and spend quality time with our family, friends and excursions.

Try to develop new skills that will enhance your knowledge and will be lessons for a lifetime. It will be great if you keep some semblance of academics alive in the fun.

Guidelines for students:

1. Ensure timely submission of the given assignment after the school reopens. Remember, a well-presented holiday homework fetches your accolades.
2. Revise all the topics which have been taught by your subject teachers in the new session.
3. Books are companions of lifetime. Read good books, novels, short stories, travelogues etc. During your summer holidays.
4. Take up an activity at home that is joyful and excites you like sketching, painting, learning any musical instrument, gardening etc.

Guidelines for the parents:

1. Communication skills play a pivotal role in grooming the holistic personality of the children. Please converse with your children preferably in English to acquaint them with the language skills.
2. Please spend quality time with your children engaging them in activities based on enhancing their powers of observation, imagination and creativity.
3. Please sensitize your child about the rich culture and heritage by watching different informative channels, videos or reading books.

Stay Healthy

Wishing you all a very enjoyable and fun-packed Summer Holidays

Manisha Kaushal
Principal

SUMMER BREAK HOLIDAY HOMEWORK

Class: IX

COMMUNITY AND SOCIAL SERVICE

Dear children,

As per the guidelines of CBSE, all the students are informed to do Community Service and Social Service during their Summer Vacation individually.

Students have to do this service on an individual basis. Submit a report and photographs on accomplishment of the task to your Class Teacher. Weightage of this work will be added in your academic performance.

Students can select community service from the below given fields: -

1. Park Cleanup Drive
2. Tree Plantation Drive
3. Visit to Old Age Homes. Spending time with senior citizens and providing assistance.
4. Teaching underprivileged children
5. Book Donation Drive
6. Fitness Programme for Seniors
7. Animal Shelter Support
8. Water and air pollution prevention
9. Health and hygiene awareness etc.



English

Q.1. "Hidden behind a growth of bushes, I discovered what appeared to be a hole in the side of a hill. Could this be an entrance to a cave? I decided to....." Narrate your experience in the form of a story in about 120 words.

Q.2. Write 50 words and their meanings and make sentences of them, make it in a booklet form and cover with colourful papers.

Q.3. Solve 1, 2 & 3 test assignments of practice papers from CBSE communicative English book.

Q.4. It is a result today at your school tomorrow. You have studied hard and feel that you did well. Your parents have promised to buy you a new watch. If you do well. Write a diary entry about your feelings and what you think will be your results.

Q.5. Read the lesson 'The little girl' from your book and compare the behaviour of Kezia's father with Mr MacDonald towards children.

Q.6. The lives of Ustad Bismillah Khan and Evelyn Glennie are sagas of Great struggle. Write in about 150 words and paste pictures of the great musician

Q7. Revise UT-2 syllabus.

HINDI

निर्देश -सारा कार्य गृहकार्य पुस्तिका में कीजिए ।

प्रश्न -1 निम्नलिखित शब्दों में से मूल शब्द और प्रत्यय अलग कीजिए।

रंगीन, साप्ताहिक, वार्षिक, सुरीला , देवत्व, सफलता, मलिन, दुकानदार, घबराहट, लिखावट, सुरीला, वैज्ञानिक , भारतीय, कृपालु, नमकीन

प्रश्न -2 निम्नलिखित शब्दों में से मूल शब्द और उपसर्ग अलग कीजिए।

प्रतिकूल, अनुशासन , अनहोनी, सुपुत्र, उपदेश , खुशहाल, निवास, बदकिस्मत, अनजान, कुशासन , लापरवाह, परिश्रम , लावारिस, परलोक , स्वागत

प्रश्न -3 निम्नलिखित विषयों पर अनुच्छेद लिखिए।

(क) मोबाइल फोन का युग (ख) विज्ञान के अभिनव आविष्कार (ग) परिश्रम ही जीवन का आधार

प्रश्न -4 (क) परीक्षा में कम अंक आने पर छात्र एवं अध्यापिका का संवाद लिखिए।

(ख) वस्तुओं की बढ़ती कीमतों को लेकर दो महिलाओं के मध्य संवाद लिखिए।

(ग) भ्रष्टाचार के मुद्दे पर दो व्यक्तियों के बीच संवाद लिखिए।

प्रश्न-5 (क) आपके विद्यालय में होने वाले वार्षिक उत्सव में आपको पुरस्कृत किया जाएगा। आप चाहते हैं कि आपकी माताजी भी इसे देखें। माता जी को बुलाने के लिए पत्र लिखिए।

(ख) ग्रीष्मावकाश बिताने के लिए अपनी सखी को निमंत्रित करने के लिए पत्र लिखिए।

(ग) छात्रावास में रहने वाले छोटे भाई को मन लगाकर अध्ययन करने की सलाह देते हुए पत्र लिखिए।

प्रश्न 6. इकाई परीक्षा 2 का पाठ्यक्रम याद कीजिए।

स्पर्श (गद्य) एवरेस्ट मेरी शिखर यात्रा, स्पर्श (पद्य) रहीम के दोहे, संचयन: पाठ 2 स्मृति, व्याकरण: शब्द और पद, अनौपचारिक पत्र, अनुस्वार, अनुनासिक , अपठित गद्यांश।

प्रश्न 7 (क) अनुस्वार युक्त 10 शब्द लिखिए।

(ख) अनुनासिक युक्त 10 शब्द लिखिए।

(ग) शब्द और पद में अंतर लिखिए।

प्रश्न -8 इंटरनेट के माध्यम से निम्नलिखित भारतीय महिलाओं की जानकारी प्राप्त कर उनसे संबंधित चित्रों का संग्रह कीजिए तथा परियोजना कार्य ए-4 शीट पर तैयार कीजिए।

(क) बचेंद्री पाल (ख) आरती साहा (ग) किरण बेदी (अनुक्रमांक 1 से 13)

प्रश्न 9 नोबेल पुरस्कार प्राप्त किन्हीं पांच वैज्ञानिकों पर सचित्र परियोजना कार्य तैयार कीजिए। (अनुक्रमांक 14 से 27)

प्रश्न 10 कवि रैदास, रहीम , कबीर के पांच -पांच दोहे सचित्र ए-4 साइज शीट पर लिखिए। (अनुक्रमांक 28 से 37)

MATHS

- Express 0.3333..... In the form of $\frac{p}{q}$ where p and q are integers and q not equal to zero?
- Simplify: (i) $(3+\sqrt{3})^2$ (ii) $(2-3\sqrt{3})^2$

3. Write the degree of the polynomial of
(i) $3x^3 + 5x - 4$ (ii) $5x^4 + 6x - 3$
4. How many rational numbers are between two rational numbers?
5. Classify the following numbers as rational or irrational:
(a) 2π (b) $2 - \sqrt{7}$ (c) $\sqrt{8}$
6. Prove that: $\frac{2^n + 2^{n-1}}{2^{n+1} - 2^n} = \frac{3}{2}$
7. Given a polynomial (a) $p(t) = 5t - 4t^2 + 3$ at $t = 2$ (b) $5x^2 + 6x - 3$ at $x = -2$
8. Factorise: i) $2x^2 - 5x - 3$ (ii) $x^2 - x - 2$
9. Simplify: $\frac{3}{\sqrt{3}+1} + \frac{5}{\sqrt{3}-1} = a + b\sqrt{3}$ find a and b.
10. Write the following cubes in expanded form: - (a) $(2x + 1)^3$ (b) $(2a - 3b)^3$
11. Factorise: $-x^3 - 2x^2 - x + 2$
12. Find the remainder when $p(x) = x^3 + 3x^2 + 3x + 1$ is divided by $x + 1$
13. If both $x - 2$ and $x - \frac{1}{2}$ are factors of $px^2 + 5x + r$ then show that $p = r$.
14. Simplify (i) $\frac{3}{5-\sqrt{3}} + \frac{2}{5+\sqrt{3}}$ (ii) $\frac{\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}} + \frac{\sqrt{5}-\sqrt{3}}{\sqrt{5}+\sqrt{3}}$ (iii) $\frac{1}{2+\sqrt{3}} + \frac{2}{\sqrt{5}-\sqrt{3}} + \frac{1}{2-\sqrt{5}}$
15. Evaluate: (a) 103×107 (b) $(99)^3$
16. Verify that $x^3 + y^3 + z^3 - 3xyz = \frac{1}{2}(x + y + z) [(x-y)^2 + (y-z)^2 + (z-x)^2]$
17. Do the Lab Manual Activity No. 1, 4 and 19 in lab activity file.
18. Learn and write table from 1 to 20.

SCIENCE

(1) Prepare a project: Create a project on selected topic including research data collection & presentation on impact of climate change on biodiversity.

(2) Scientists Corner: Choose a renowned Scientist from any field (PHY, CHEM, BIO etc) Gather information about the Scientists life, his Contribution and Achievement's Write all information on a full chart paper which includes pictures, diagrams etc.

(3) Make a Static or Dynamic QR Codes for at least five trees found in your area. Bring printouts with lamination.

(4) Plan to go to a place by a vehicle. Take readings of odometer and speedometer after every 5 minutes till you reach your destination. Record these observations in tabular form; plot graphs between distance-time and speed time. State whether this motion is uniform or non uniform.

Physics Worksheet

Answer the following questions:

- (1) > What is the acceleration of a body moving with uniform velocity?
- (2) > What does the slope of a distance-time graph gives?
- (3) > Can displacement be zero even when distance is not zero? Give Example.
- (4) > How can you get speed of an object from its distance – time graph?
- (5) > How can you get distance of an object from its speed – time graph?
- (6) > Can a body have zero velocity and still acceleration? Give example.
- (7) > Is it possible in straight line motion a particle having zero speed and a nonzero velocity? Explain.

- (8) ➤ On a 60 km straight road, a bus travels the first 30 km with a uniform speed of 30 kmh⁻¹ . How fast must the bus travel the next 30 km so as to have average speed of 40 kmh⁻¹ for the entire trip?
- (9) ➤ A driver takes 0.20 seconds to apply the brakes. If he is driving car at a speed of 54 kmh⁻¹ and the brakes cause a deceleration of 6.0 ms⁻² . Find the distance travelled by the car after he sees the need to put the brakes.
- (10) ➤ A ball thrown vertically upwards with a speed of 19.6 ms⁻¹ from the top of a tower returns to the earth in 6 seconds. Find the height of the tower.(g = 9.8 ms⁻²)

Biology Worksheet

Multiple Choice Questions(MCQs)

Choose the correct option.

Question1.Nucleus is separated from cytoplasm by

- (a)nuclear membrane (b)nucleoplasm
(c)organs (d)cell membrane

Question2.The liquid material in the nucleus's

- (a)chromosomes (b)bacteria
(c)nucleoplasm (d)nucleolus

Question3.Tissues combine to form

- (a)nucleus (b)cells
(c)organism (d)organs

Question4.Cells present in living organism differ in

- (a)numbers (b)shape
(c)size (d)all of these

Question5.Cells which lack nuclear membrane are

- (a)eukaryotic cells (b)prokaryotic cells
(c)single cells (d)multi cells

Question6.The control centre of all the activities of a cell is

- (a)nucleus (b)nucleoplasm
(c)cytoplasm (d)organelles

Question7.The coloured organelles which are found in plants only are

- (a)chlorophyll (b)plastids
(c)vacuoles (d)WBC

Question8.Genes are located in

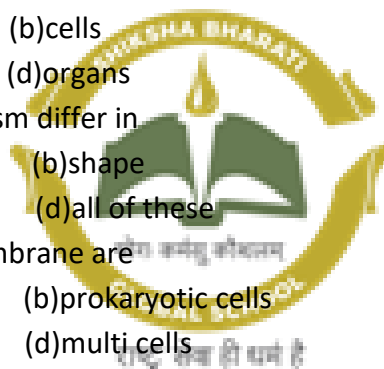
- (a)chromosomes (b)plastids
(c)cytoplasm (d)lysosome

Question9.A group of similar cells combine to form

- (a)tissue (b)organ
(c)organisms (d)organelles

Question10.The organism containing only a single cell is called

- (a)unicellular organism (b)multicellular organism
(c)organelle (d)all of these



Chemistry Worksheet

Complete the following work in your Chemistry notebook

- When heat is constantly supplied by a burner to boiling water, then the temperature of the water during vaporisation:
 - Rises very slowly
 - Rises rapidly until steam is produced
 - First rises and then becomes constant
 - Does not rise at all
- Gases can be liquefied under specific conditions of temperature and pressure. Identify the correct set of conditions.
 - Low temperature, low pressure
 - High temperature, low pressure
 - Low temperature, high pressure
 - High temperature, high pressure
- Which of the following phenomena would increase on raising the temperature?
 - Diffusion, evaporation, compression of gases
 - Evaporation, compression of gases, solubility
 - Evaporation, diffusion, expansion of gases
 - Evaporation, solubility, diffusion, compression of gases
- Dry ice is
 - water in solid state
 - water in gaseous state
 - CO₂ in liquid state
 - CO₂ in solid state
- On converting 25°C, 38°C and 66°C to Kelvin scale, the correct sequence of temperature will be
 - 298 K, 311 K and 339 K
 - 298 K, 300 K and 338 K
 - 273 K, 278 K and 543 K
 - 298 K, 310 K and 338 K
- What is the effect of humidity on evaporation?
- Ice floats over water, why ?
- What are the difference between boiling and evaporation?
- Why surgeons often spray some ether on skin before performing minor surgery?
- Learn and write the first 20 elements mentioned in the periodic table along with its symbols, atomic number, mass number.

SOCIAL SCIENCE

Q1 On the physical map of India locate and label the following: -

- Six Physical Features
- Neighbouring countries

Note- Paste the maps in your notebook.

Q2. Learn Chapter 1 of History and chapter 2 of Civics, Economics and Geography.

Q3. Make a 3D model of India on thermocol. (Group work).

Class9D- Make soil profile. (Group Work).

ARTIFICIAL INTELLIGENCE

1. The Sustainable Development Goals (SDGs) are a set of 17 global goals adopted by the United Nations General Assembly in 2015 as part of the 2030 Agenda for Sustainable Development.



Create a poster to generate awareness about any one SDG, out of the list of 17 SDGs given above using the software “Canva”. Nothing hand written should be there in the poster. Submit the hardcopy (A3 size) of the poster.

2. **Create Python program SET A list provided, take print out of (code with output) and arrange in practical file.**

