

Srinath Public School

Summer Vacation Holiday Work

Class: IX A/B

<u>Subject</u>	<u>Questions</u>
English	<p>1. Mind Map Prepare a mind map of the lesson "The Truly Beautiful Mind" from your textbook. Highlight the key events, main ideas, and important contributions of the central figure in the lesson in literature notebook.</p> <p>2. Collage Work Make a collage on the life and works of authors and poets from different literary periods. Use pictures, quotes, and brief descriptions. Present your work neatly on a chart paper.</p> <p>Roll 1 to 5- Old English Period Roll 6 to 10-Middle English Period Roll 11 to 15- The Renaissance Roll 16 to 20-Elizabethan age Roll 21 to 25-Jacobean age Roll 26 to 30-Neoclassical Period Roll 31 to 35-The Romantic Period Roll 36 to 40- The Victorian Period Roll 41 to 50- Modern Period</p> <p>Note: Creativity, originality, and neatness will be appreciated.</p> <p>3. Solve two discursive passages in English language notebook.</p> <p>4. Vocab diary Write one word each day in a diary with its meaning and sentence.</p> <p>5. Read the recommended book and write its book review. Book name- 1. Hamlet Or 2. Romeo and Juliet</p>

Hindi	<p>क्षितिज भाग 1 गद्य भाग -1.दो बैलों की कथा 2.ल्हासा की ओर पद्य भाग -1. कबीर की साखियां एवं सबद 2.वाख नोट बुक में अभ्यास प्रश्न उत्तर लिखना व्यवहारिक व्याकरण -उपसर्ग एवं प्रत्यय परियोजना कार्य -आधुनिक नारी-सशक्त नारी</p>
Science	<p style="text-align: center;">BIOLOGY</p> <p>Make a project on topic " Fundamental Unit of life: Cell" Make the project in a transparent file using practical project paper. The headings can be as stated below:</p> <ol style="list-style-type: none"> 1. Cover page 2. Acknowledgment 3. Content 4. Introduction 5. Different shapes of cell 6.Cell theory 7. Major components of cell 8. Cell organelles - Mitochondria, lysosome, golgi apparatus etc. 9. Comparison between plant cell and animal cell 10. Cell division 11. Conclusion 12. Bibliography <p style="text-align: center;">CHEMISTRY</p> <ol style="list-style-type: none"> 1.Osmosis is a special kind of diffusion'. Comment. 2. Classify the following into osmosis/diffusion <ol style="list-style-type: none"> (a) Swelling up of a raisin on keeping in water. (b) Spreading of virus on sneezing. (c) Earthworm dying on coming in contact with common salt. (d) Shrinking of grapes kept in thick sugar syrup. (e) Preserving pickles in salt. (f) Spreading of smell of cake being baked through out the house. (g) Aquatic animals using oxygen dissolved in water during respiration. 3. Water as ice has a cooling effect, whereas water as steam may cause severe burns. Explain these observations. 4. Alka was making tea in a kettle. Suddenly she felt intense heat from the puff of steam gushing out of the spout of the kettle. She

wondered whether

the temperature of the steam was higher than that of the water boiling in

the kettle. Comment.

5. a) Conversion of solid to vapour is called sublimation.

Name the term used to denote the conversion of vapour to solid.

(b) Conversion of solid state to liquid state is called fusion; what is meant by latent heat of fusion?

6. It is a hot summer day, Priyanshi and Ali are wearing cotton and nylon clothes respectively. Who do you think would be more comfortable and why?

7. You want to wear your favourite shirt to a party, but the problem is that it is still wet after a wash. What steps would you take to dry it faster?

8. Comment on the following statements:

(a) Evaporation produces cooling.

(b) Rate of evaporation of an aqueous solution decreases with increase in humidity.

(c) Sponge though compressible is a solid.

9. Why does the temperature of a substance remain constant during its melting point or boiling point? It is a hot summer day, Priyanshi and Ali are wearing cotton and nylon clothes respectively. Who do you think would be more comfortable and why?

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PHYSICS

Define and write the following

1) Speed and its formula

2) Velocity and its formula

3) Acceleration and its formula

4) Average speed and its formula

	<p>5) Draw the graph for uniform speed and non uniform speed</p> <p>Numerical questions:</p> <ol style="list-style-type: none"> 1. A particle is moving up an inclined plane. Its velocity changes from 25m/s to 10m/s In 5 seconds. What is its acceleration? 2. The velocity changes from 35m/s to 60m/s in 3 seconds. What is its acceleration? 3. A body covered a distance of 4 metre along a semi-circular path. Calculate the Magnitude of displacement of the body, and the ratio of distance to displacement? 4. A particle moving with an initial velocity of 8m/s is subjected to a uniform Acceleration of 2.5m/s. Find the displacement in the next 4 sec. 5. A train is travelling at a speed of 40 km/ h. Brakes are applied so as to produce a Uniform acceleration of -0.5 m/s^2 Find how far the train will go before it is brought to rest. 6. A Truck covers 90km at a uniform speed of 30km/hr. What should be its speed for the next 120km if the average speed for the entire journey is 60km/h? 7. A stone is thrown in a vertically upward direction with a velocity of 15 m/s. If the Acceleration of the stone during its motion is 8 m/s^2 in the downward direction. What will be the height attained by the stone and how much time will it take to reach There? 8. A person goes to market, makes purchases and comes back at a Constant slower speed. Draw displacement- time and velocity time graphs of the person? 9. Rahul runs for 8 min. At a uniform speed 5 km/h. At what speed should he run for the next 10 min. So that the average speed comes 15km/hr?
<p>Social Science</p>	<p>HISTORY</p> <p>Section 1: Fill in the Blanks)</p> <p>Instructions: Choose the correct word from the box below to fill in the blanks. (King, France, People, Happy, Bread)</p> <ol style="list-style-type: none"> 1. The French Revolution happened in a country called _____. 2. During that time, the _____ of France were not very _____.

3. They didn't have enough _____ to eat.
4. The _____ was the leader of France then.

Section 2: True or False

Instructions: Read each sentence carefully. If it is true, write "True." If it is false, write "False."

1. The French Revolution happened because the people were very happy. (_____)
2. The people of France wanted a change. (_____)
3. Only rich people were suffering. (_____)
4. The French Revolution was a peaceful time with no fighting. (_____)

Section 3: Multiple Choice Questions (MCQ) (10 minutes)

Instructions: Read each question carefully and circle the correct answer.

1. What is a revolution?
 - a) A happy party
 - b) A big change
 - c) A game of cricket
2. Why were the people of France unhappy?

GEOGRAPHY

- Make a channel file project on disaster management.
- Make a file of maps of :

Map 1: Ch 1:

- India – States and Capitals
- Tropic of Cancer, Standard Meridian (Location and Labeling)
- Neighbouring Countries

Map 2: Ch 2:

- Mountain Ranges : The Karakoram, The Zaskar, The Shivalik, The Aravali, The Vindhya, The Satpura, Western and Eastern Ghats
- Mountain Peaks – K2, Kanchan Junga, Anai Mudi
- Plateau – Deccan Plateau, Chota Nagpur Plateau, Malwa Plateau
- Coastal Plains – Konkan, Malabar, Coromandel & Northern Circar (Location and Labelling)

Map 3: Ch 3:

Rivers (Identification only)

- The Himalayan River Systems – The Indus, The Ganges and The Sutlej

	<ul style="list-style-type: none"> • The Peninsular Rivers – The Narmada, The Tapti, The Kaveri, The Krishna, The Godavari, The Mahanadi • Lakes – Wular, Pulicat, Sambar, Chilika <p>Map 4: Ch 4:</p> <ul style="list-style-type: none"> • Annual rainfall in India, Monsoon wind direction <p>Map 5: Ch 6:</p> <ul style="list-style-type: none"> • Population density of all states • The state having highest and lowest density of population <p>ECONOMICS</p> <p>The Story of Village Palampur: Prepare a report, comparing traditional and modern farming methods, including the use of modern farming methods, multiple cropping, and the impact on yield. Use visuals and real-life examples to support your points.</p>
Math's	<p>1. Number System</p> <p>2. Polynomials</p> <p>Solve all the exercises of R.S. Aggarwal in note copy.</p>
Artificial Intelligence	<ul style="list-style-type: none"> • To be done in Computer Copy. <ol style="list-style-type: none"> 1. Write a paragraph on Pros and Cons of Artificial Intelligence. 2. Explain any three applications of AI. 3. Explain the domains of AI. 4. What is AI Bias? Explain its types. 5. Explain any five features of Python language. 6. Explain the different data types of Python. 7. What is syntax? 8. What is a variable? Mention any three rules of naming a variable. 9. What is Type Casting? Explain its types. 10. What is floor division and modulus division?