SOMERVILLE SCHOOL, VASUNDHARA ENCLAVE CLASS IX HOLIDAY HOMEWORK SESSION 2025-26

SUBJECT	DETAILS
ENGLISH	Art Integrated Activity & Worksheet
HINDI	Art Integrated Activity & Worksheet
SANSKRIT	Worksheet
MATHEMATICS	Art Integrated Activity & Worksheet
SCIENCE	Art Integrated Activity & Worksheet
SOCIAL SCIENCE	Art Integrated Activity & CBSE Disaster Management Project
ARTIFICIAL INTELLIGENCE	Art Integrated Activity
	ENGLISH HINDI SANSKRIT MATHEMATICS SCIENCE SOCIAL SCIENCE ARTIFICIAL

Instructions:

- Attempt the Holiday Homework on A4 sized sheets.
- Compile the homework of all the subjects in one file.
- Write the name of the subjects and question numbers carefully.
- Include a cover page.

A celebration of faith and devotion, the ritualistic dance of Chaam reveals itself as an important aspect of Sikkim's heritage.

In Step with Culture: Experience the Vibrant Chaam of Sikkim

Nestled within the breathtaking vistas of the Himalayas, the state of Sikkim is a land of verdant mistladen peaks and cascading waterfalls. It is here that a unique festival of dance awaits your discovery. The vibrant tapestry of Chaam, a ritualistic dance and an epitome of Sikkamese culture, never fails to enthrall.

Held according to the Tibetan calendar, Chaam dances are one of the most colourful celebrations that take place in the courtyards of Buddhist monasteries as part of a bigger festival. Chaam dances have a long history, dating back to the time of Guru Padmasambhava, the founder of Tibetan Buddhism in Sikkim, who is supposed to have done this dance to expel a demon from this holy place. The Chaam dance festival attracts pilgrims from far and wide.

What sets this dance apart is the use of vibrant masks and colourful costumes through which performers embody different characters ranging from the divine to the devil. Their movements, a seamless symphony of grace and power, tell the tales of ancient legends and spiritual teachings, and have the power to transport onlookers into a realm where we speak with God.

Yak Chaam: Yaks are an intrinsic part of Himalayan life; to celebrate their contribution to our lives, performers wearing costumes and masks resembling the yak stampede through the courtyard and fill the space with an infectious energy. It is believed that honouring the yak brings good fortune and wards off evil from the land.

Chaam is a ritualistic masked dance that is held in monasteries.

Drag-dmar Chaam: Held in the Pemayangtse monastery in west Sikkim, the Drag-dmar chaam sees mask-dances performed on the first two days of a festival that marks the end of one year and the beginning of the Tibetan New Year. Lamas from the monastery dress up as Mahākāla and Guru Drag-dmar to engage in a mock battle that signifies victory of good over evil. On the last day, a giant embroidered Buddha-scroll (Thankga) is displayed at the monastery.

Kagyed Chaam: Kagyed is another type of chaam, performed by Buddhist monks and lamas to honour the divine and ward off evil. This festival, mostly held in December, is most popular in the monasteries of Lingdum (Ranka), old Rumtek, Enchey and Ralang, and attracts hundreds of believers who hope to be blessed by witnessing the masked dance. Observed with offering prayers followed by the ritualistic Lama Dance, this chaam is performed to impress the Kagyed deities.

ENGLISH

Art Integrated Project:

Creating beautiful masks is an integral part of the Sikkimese heritage. Make a tribal mask using waste materials found at home. Use ruled A4 sheets to write the following information:

- Significance of making masks
- Communities traditionally involved in mask making
- Materials, tools, and techniques used
- Importance of preserving traditional crafts

Worksheet:

- 1. You participated in a Folk Dance Competition and won the first prize. Write a letter in about 90-100 words to your grandparents telling them all about your experience. You are Kripa/Keshab Jain of Kanpur.
- 2. Find the antonyms of the following words from the article:
 - a) barren
 - b) disappoint
 - c) preceded
 - d) modern
 - e) repels
- 3. Change the following as instructed:
 - a) A celebration of faith and devotion, the ritualistic dance of Chaam reveals itself as an important aspect of Sikkim's heritage. (Future Continuous Tense)
 - b) Chaam dances are one of the most colourful celebrations. (Present Perfect Tense)
 - c) Their movements, a seamless symphony of grace and power, tell the tales of ancient legends. (Present Continuous Tense)
 - d) The Chaam dance festival attracts pilgrims from far and wide. (Present Perfect Continuous Tense)

HINDI

कला समेकित गतिविधि

- (i) ऊपर दिए गए अनुच्छेद(ENGLISH ARTICLE) में सिक्किम के पारंपरिक लोकनृत्यों के बारे में जानकारी दी गई है उसी के आधार पर सिक्किम के लोकनृत्यों का महत्त्व,उनकी विशेषताएँ व पोशाक के बारे में दो मित्रों के बीच हुई बातचीत को संवाद के रूप में 80-100 शब्दों में लिखिए
- (ii) सिक्किम के पारंपरिक लोकनृत्यों से संबंधित चित्र लगाइए तथा 'लोकनृत्यों के महत्व' को दर्शाते हुए दो स्वरचित स्लोगन लिखिए

कार्यपत्रिका

- (1) 'दुख का अधिकार' कहानी को ध्यानपूर्वक पढ़कर उसका सार 50-60 शब्दों में लिखिए ।
- (2) अपनी पाठ्यपुस्तक के पढ़ाए गए पाठों में से 10-10 उपसर्ग व प्रत्यय वाले शब्द छाँटिए तथा उनमें से उपसर्ग, प्रत्यय व मूलशब्द अलग-अलग करके लिखिए।
- (3) अनुस्वार व अनुनासिक की सहायता से बने 5-5 शब्द लिखकर उनका वाक्य में प्रयोग कीजिए

SANSKRIT

कक्षा – नवमी

ग्रीष्मावकाश कार्यपत्रिका

*कार्यपत्रिका का प्रिंट लेकर उसी पर उत्तर लिखें |

प्रश्न १ मञ्जूषायाः सहायतया संवादं पठित्वा रिक्तस्थानानि पूरयत -

मञ्जूषा -मित्रैः, दर्शनीयम्, गमिष्यामः, जयपुरं, कार्यक्रमः

"	•		
विनोदः – अंकित !	श्वः भवान् कुत्र गमिष्यति ?		
अंकितः – अहं (i) .	गिमष्यामि ।		
विनोदः – तत्र किम	पि कार्यं वर्तते ? अथवा भ्रमण	गार्थम्एव गच्छति ?	
अंकितः – कार्यं ना	स्ति, अहं तु (ii)	सह भ्रमणार्थं गच्छामि।	
	ुत्र-कुत्र भ्रमणस्य (iii)		
अंकितः – वयं तत्र	आमेर-दुर्गं, जयगढ़दुर्ग, गोवि	न्ददेव-मन्दिरं च दक्ष्यामः ।	
विनोदः – तत्र नाहर	रगढ़-दुर्गमपि पश्यतु । तदपि	(iv) अस्ति ।	
अंकितः – यदि सम	ायः.अवशिष्टः भविष्यति तर्हि	ह निश्चयेन तत्र गमिष्यामः	l
विनोदः – बाढ़ मित्र	! नमस्ते !इदानीम् अहं गच्छ	प्रमि। सोमवासरे आवां पुन :'	मिलिष्याव:। तदा (v)
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प्रश्न	२ निर्देश	•								
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(iii)	उचितं	वर्णं चित्व	वा वर्णवियो	जने रिक	तस्थानपूरि	तैं कुरुत।				
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प्रश्न	3-									
अधोद	त्तं पद्यांश	पठित्वा !	प्रश्नान् उत्त	रत।						
	गौरवं प्रा	प्यते दाना	त् न तु वि	तस्य सः	चयात्।					
	स्थितिरु	व्यै: पयोद	ानां पयोधी	नामधः '	स्थिति:।	I				
I.	गटनाटे	न उत्तरत	,							
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	(i)		स्तात् प्राञ् थति: उच्चै:)					
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प्रश्न ४ - प्र	त्यय संयो	जनं /वि	भाजनं हि	क्रेयताम्	_					
१) बालिव	न <u>रोदितुम</u> ्	आरभत	ī							
	+हस्+ल्यप्									
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४) माता फलानि <u>निक्षिप्य</u> अगच्छत् |

प्रश्न ५ कथापूर्तिं कुरुत-

MATHEMATICS

Art Integrated Project: Depict the following information about SIKKIM in the form of a Pie chart.

Most commonly spoken languages in Sikkim.

- List some commonly spoken languages by different tribes of Sikkim.
- Collect the data (in percentage form) and present it in the tabular form.
- Represent the same in the form of a pie chart with a title, using different colours.

WORKSHEET:

Q1. Prove that
$$\frac{1}{3-\sqrt{8}} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-2} = 5$$

Q2. Factorize
$$(x - 2y)^3 + (2y - 3z)^3 + (3z - x)^3$$

Q3. Represent geometrically $\sqrt{9.5}$ on number line.

Q4. If the polynomials $(k x^3+3x^2-13)$ and $(5x^3-8x+k)$ leave the same remainders when divided by x+1, then find the value of k.

Q5. If $x = 3 + 2\sqrt{2}$, Check whether $x + \frac{1}{x}$ is rational or irrational.

Q6. If
$$x = 2 + \sqrt{3}$$
, find $\left(x + \frac{1}{x}\right)^3$.

Q7. Find a and b if
$$\frac{4+\sqrt{5}}{4-\sqrt{5}} + \frac{4-\sqrt{5}}{4+\sqrt{5}} = \mathbf{a} + \mathbf{b}\sqrt{\mathbf{5}}$$

Q8. Find the value of

$$(x-a)^3 + (x-b)^3 + (x-c)^3 - 3(x-a)(x-b)(x-c)$$
 when $a+b+c=3x$

Q9. If
$$P(x) = 5x^2 - 4x + 5$$
, find $P(0) - P(1) + P(-2)$.

Q10. Factorise: a)
$$(a - 2b)^3 - 512b^3$$

b)
$$2\sqrt{2} a^3 + 8b^3 - 27c^3 + 18\sqrt{2} abc$$
.

c)
$$4\sqrt{3} x^2 + 5x - 2\sqrt{3}$$

SOCIAL SCIENCE

Create a labeled drawing of the attire worn during the Chaam dance in Sikkim. Through your illustration and labels, explain how the clothing is suited to Sikkim's landscape and climatic conditions.

You can also use pieces of cloth or origami sheets to show the costume.

DISASTER MANAGEMENT PROJECT

1) Any one of the following topics will be allotted to the students:

Natural Disasters-Floods, Earthquake, Landslide, Tsunami and Cyclones.

Man induced Disasters-Chemical, Forest Fire Epidemic.

- (ii) Case study and mitigation strategies to be included.
- (iii) Assume yourself to be a Disaster Manager. Keeping in mind the disaster for a particular area, mention how you will contribute and participate to reduce the impact of a disaster and educate people to prepare themselves to cope up with it.
- (iv) Students must refer to the book prescribed by NCERT (Together towards a safer India-II)

CBSE guidelines for the preparation of project

- 1. The total length of the project report must not be more than 15 written pages of foolscap size (A-4 size).
- 2. The project report must be handwritten, and credit will be awarded to original drawings, illustrations and creative use of materials
- 3. The students should continuously discuss the doubts with the teacher and prepare a draft before finalizing the report.
- 4. The project report must be presented in a neatly bound simple folder.
- 5. The project report must be developed and presented in the given order:
- Cover page showing project title, student information, school and year, list of contents with page numbers
- Acknowledgements (acknowledging the institution, offices and libraries visited and people who have helped).

- **Project Overview**: Purpose, Aim, Methodology and Experiences while doing the project. Chapters with relevant headings.
- Summary and conclusions based on the findings.
- Planning and activities to be done during the project. Give a calendar of activities, if activities are undertaken.
- **Bibliography:** should have the Title, pages referred, author, publisher, year of publication and if a website has been referred to, the name of the website with the specific website link which has been used, should be mentioned.
- All the photographs and sketches should be labelled and acknowledged.
- Teacher's Evaluation Report Proforma to be attached at the end of the project.

SCIENCE

BIOLOGY

<u>Project</u>: Design a pamphlet on yak conservation, depicting its significance in Sikkim's culture and socio-economic stability.

Worksheet:

- 1. List the benefits of yak husbandry.
- 2. Illustrate the significance of yaks in organic farming in Sikkim.
- 3. Why is the yak population declining? What steps are being taken in Sikkim to conserve yaks?

PHYSICS

- 1. Vishnu swims in a 90m long pool. He covers 180 m in one minute by swimming from one end to the other and back along the same straight path. Find the average speed and average velocity of Vishnu.
- 2. A train 100m long moving on a straight level track passes a pole in 5s. Find:
 - (a) the speed of the train
 - (b) the time it will take to cross a bridge 500m long.
- 3. On a 120 km track, a train travels the first 30 km at a uniform speed of 30 km/hr. How fast must the train travel the next 90 km so as to average 60 km/hr for the entire trip?
- 4. A train starting from rest attains a velocity of 72 km/h in 5 minutes. Assuming that the acceleration is uniform, find:
 - (i) the acceleration and
 - (ii) the distance travelled by the train for attaining this velocity.
- 5. A bus was moving with a speed of 54 km/h. On applying brakes, it stopped in 8 seconds. Calculate the acceleration and the distance travelled before stopping.

6. The brakes applied to a car produce an acceleration of 6 m/s² in the opposite direction to the motion. If the car takes 2 seconds to stop after the application of brakes, calculate the distance it travels during this time.

CHEMISTRY

- 1. Following questions consist of two statements Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:
 - (a) Both A and R are true and R is the correct explanation of A.
 - (b) Both A and R are true but R is not the correct explanation of A.
 - (c) A is true but R is false.
 - (d) A is false but R is true.
 - i) Assertion: Camphor disappears without leaving any solid.
 Reason: Camphor undergoes sublimation.
 - ii) Assertion: Ice floats on the surface of water.

Reason: The density of both ice and water is the same.

- iii) Assertion (A): Boiling is a bulk phenomenon.
 - **Reason (R):** It takes place at room temperature.
- iv) **Assertion (A):** On heating dry ice changes to gaseous carbon dioxide but ice changes liquid state.

Reason (R): Dry ice undergoes sublimation but ice undergoes fusion.

- v)Which of the following statements about pure substances is correct?
 - A) Pure substance can be separated by physical process into its chemical constituents.
 - B) Pure substances contain only one kind of particle.
 - C) Pure substances may be compounds or mixtures.
 - D) Pure substances may be elements, compounds or mixtures.
- vi) The latent heat of vaporisation is the amount of heat energy that is required to change
 - A) 10kg of a liquid into gas at its boiling point.
 - B) 100g of a liquid into gas at atmospheric pressure at its boiling point.
 - C) 1000g of a gas into liquid at atmospheric pressure.
 - D) 1kg of a liquid into gas at atmospheric pressure at its boiling point.
- 2. Draw a flow diagram depicting interconversion of three states of matter.

ARTIFICIAL INTELLIGENCE

Using any Al	I photo editing tool,	, create a col	lage on th	ne traditional	dances of
Sikkim inclu	ding the masked da	ance.			
