KV HPC PANCHGRAM

AUTUMN BREAK HOLIDAY HOMEWORK

Class-6. Subject – Maths

- ✤ Write Tables 1-25 and learn them by heart.
- Make a collage with different geometrical shapes you find in your day to day life. Make list in your copy describing the shape resembles to which geometrical shape.
- Using cardboard and circular sticks make different angles and categories according to their measures.
- Complete your notebook &put a cover on it .
- **Do an activity on your favourite topic of your textbook and make a video of yourself performing that activity.**

KV HPC PANCHGRAM

Holiday Assignment (2022-23)

Subject: Mathematics

Class: VII

Q1. Find P,Q, R, S

(i) The sum of two integers is 71. If one of them is -101, then other integer is P.
(ii) The product of an integer and Q is zero.

(iii) R is the quotient when an integer is divided by itself.

(iv) Additive inverse of -7 is S.

A)

 \odot



Q2. In the given diagram, square represents women, triangle represents sub – inspectors of police and circle represents graduates. Which numbered area represents graduate women who are sub – inspectors of police?



Q 3. Mohit is 16th from top and twelfth from bottom in merit in the class. How many students are there in the class?

Unit 4 : Climatic Diversity of India

0

The world is divided into a number of climatic zones. The climate of India is described as 'Monsoon' type. There is a lot of variation in temperature across India. In Summer, the mercury occasionally touches 50° C in some parts of the Rajasthan desert, whereas it may be around 20° C in Pahalgam in Jammu and Kashmir. On a winter night, temperature at Drass in Jammu and Kashmir may be as low as -45 ° C on the other hand, Churu in Rajasthan may have a temperature of 22° C.

The average monthly temperatures of Drass and Churu were recorded. The table given below shows this information from January to June.

	January	February	March	April	May	June
Average Temperature in Drass (°C)	-32	-20	-6	2	14	21
Average Temperature in Churu (°C)	22	25	32	35	40	44

4.1 Show the increase in temperature in Drass from March to April on the number line below.

-	1							3		1		9 J	(i)		1						6 S	12 - 3		1	
			Т		_	١,									1	1		1						1	1
	-1	0 .	-9	-8	3 -	7 -	6 -	-5	-4	-3	3 -2	2 -	1	0	1	2	3	4	5 (6	7	8	9	10	

4.2 Find the difference in temperature between Churu and Drass in January.

Unit 5 : Hit the Boundary

The word Perimeter is used either to indicate path or length. This word comes from two Greek words 'Peri' (which means around) and 'Meter' (which means measure).

Perimeter is the total length of the boundary of a closed figure.



The perimeter of a simple closed figure is the sum of the measures of line-segments, binding the figure.



B C E K Q Perimeter of \triangle ABC = length (AB + BC + CA) Perimeter of the quadrilateral DEKN = length (DE + EK + KN + ND) Perimeter of the hexagon PQRSTU = length (PQ + QR + RS + ST + TU + UP)

5.1 Calculate the perimeters of the figures given below:



5.2 What are the perimeters of the figures given below?



Creative Corner

Create your own figures of the given perimeters and colour them according to your choice.

(a) Draw a closed shape with a perimeter of = 24 units.

(b) Draw three different closed shapes with a perimeter of 18 units.

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	 ,,	

Q6. Joy walked 35m towards south. Then he turned to his left and walked 25m. He turned to his left and walked 35m. He again turned to his right and walked 10m and then turned left and walked 12m. At what distance is he from the starting point and in which direction?

A. 37 m, North – East

B. 38 m , North – East

C. 35 m, North D. 36 m, North – West

Unit 7 : Magical Maths

Read the following conversation between two friends



Let's try to figure out this 'trick'.



7.1 Now another puzzle for you ...



Theme:CARD GAME Q 8.1

'hree rectangular c	cards are numbered 1, 3 and 5	Since an event either happens or does not happen, the total probability of a event to happen or not is always equal to 1
	1 3 5	
Sanjay picks one o	f these cards at random.	
(a) 5	ty that the number on the card he p	DICKS 15

Q 8.2

Three circular cards are numbered 2, 3 and 4



Sharda randomly picks one of these circular cards. Find the probability that the number on the card which she takes out is an even number.

Question: 9

Analogy puzzles helps us to think about the relationship between two things. The symbol'::' means 'is the same as ' or 'is analogous to'.

For example, 5:25::6:? would be read as 5 is to 25 as 6 is to what?

The answer is 36 because 5 times itself is 25 and 6 times itself is 36.

Use the example above to answer these analogy puzzles.

- (i) 7:49::10:?
 - (a) 12
 - (b) 32
 - (c) 25
 - (d) 100
- (ii) Triangle : Hexagon : : Rectangle: ?
 - (a) Square
 - (b) Pentagon
 - (c) Line
 - (d) Octagon
- (iii) $270^\circ: \frac{3}{4}$:: $300^\circ: ?$
- (iv) 4 : Square :: ? : Decagon
- (v) 180°: Triangle:: 540°:?
- (vi) B:H::D:....?

Theme 10: Homeward Bound

Geetali is travelling back home by train from Mumbai to Pune.



Q10.1

The price of a ticket is Rs.1350. Geetali being a student gets a rebate of one-third on her ticket. Calculate the amount that she pays for her ticket.

Q 10.2

Geetali travels by two trains. The first train goes from Mumbai to Lonavala. The second train goes from Lonavala to Pune. Look at some information that she has written down about the schedule of the trains.

1103	(training		
Mumbai	departs	13 45	hrs.
Lonavala	arrives	16 39	hrs.
Seco)	nd train		
Lonavala	departs	17 12 H	nrs.

Express the time 1345 hrs. using the 12-hour clock.

Q 10.3

Find the time that the first train would take to travel from Mumbai to Lonavala. Give your answer in hours and minutes.

write tables from 1 to 25 and learn them by heart.

KV HPC PANCHGRAM

Holiday Assignment (2022-23)

Subject : Mathematics

Class : VIII

Q1.

Direction: Read the following statements carefully to answer these questions:

I. X is older than L,
II. M and N are of equal
age.
III. Z is the youngest.
IV. Y is younger than N.
V. Y is older than X.

Which two of the above statements indicate that Y is older than L?

A) C I and IV B) C IV and V C) C I and V D) C III and IV

Q2. Find the missing number:



Α

- •
- 4
- 8
- В
- •
- 5 8
- С
- .
- 5
- 9

D.95

ii)



D.10

Q3. Direction sense test

i)		A cyclist goes 30 km to North then 40 km to East. Now he takes a right turn and goes 20 km then again he turns his right and goes 40 km.Draw the diagram and findHow far is the cyclist from his starting point?
	Α	
	5	
	0	
	B	
	•	
	2	
	5	
	С	
	1	
	0	
	D.	40
	E.	None of these
ii)		
		The length and breadth of a room are 8 m and 6 m respectively. A cat runs along all the four walls and finally along a diagonal order to catch a rat. How much total distance is covered by the cat?
Α		
•		
1		
0		
В		
•		
1		
- -		
3		
8		
U		

D. **48**

E. None of these



•	If the p	orice of	petrol,	diesel	and	LPG	is	slashed	as	follows:	

Fuel	Old prices/ litre (in Rs)	New price/ litre (in Rs)	% Decrease
Petrol / L	45.62	40.62	
Diesel / L	32.86	30.86	
LPG/14.2kg	304.70	279.70	

Complete the above table.

Theme 5: My Calender

I have had this lovely calendar that has cute cut out labels for each month, which I had assembled.

Yesterday my cat jumped on the desk and the calendar fell down, mixing up all the pages.

м	т	W	т	F	S	S	м	т	W	т	F	S	S	м	т	W	т	F	S	S	м	т	W	т	F	S	S
			1	2	3	4		1	2	3	4	5	6						1	2		1	2	3	4	5	6
5	6	7	8	9	10	11	7	8	9	10	11	12	13	3	4	5	6	7	8	9	7	8	9	10	11	12	13
12	13	14	15	16	17	18	14	15	16	17	18	19	20	10	11	12	13	14	15	16	14	15	16	17	18	19	20
19	20	21	22	23	24	25	21	22	23	24	25	26	27	17	18	19	20	21	22	23	21	22	23	24	25	26	27
26	27	28	29	30	31		28	29	30					24	25	26	27	28	29	30	28	29	30	31			
														31													
[]]														
м	т	W	т	F	s	s	м	т	W	т	F	s	s	м	т	w	т	F	S	S	М	т	w	т	F	s	S
1	2	3	4	5	6	7					1	2	3						1	2						1	2
8	9	10	11	12	13	14	4	5	6	7	8	9	10	3	4	5	6	7	8	9	3	4	5	6	7	8	9
15	16	17	18	19	20	21	11	12	13	14	15	16	17	10	11	12	13	14	15	16	10	11	12	13	14	15	16
22	23	24	25	26	27	28	18	19	20	21	22	23	24	17	18	19	20	21	22	23	17	18	19	20	21	22	23
29	30						25	26	27	28	29	30	31	24	25	26	27	28			24	25	26	27	28	29	30
[]]]]
м	т	W	т	F	s	S	м	т	W	т	F	S	s	м	т	w	т	F	s	s	м	т	w	т	F	s	S
1	2	3	4	5	6	7							1			1	2	3	4	5			1	2	3	4	5
8	9	10	11	12	13	14	2	3	4	5	6	7	8	6	7	8	9	10	11	12	6	7	8	9	10	11	12
15	16	17	18	19	20	21	9	10	11	12	13	14	15	13	14	15	16	17	18	19	13	14	15	16	17	18	19
15		24	25	26	27	28	16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26
22	23	24	-	an or	~									_													
22 29	23 30	31	100				23	24	25	26	27	28	29	27	28	29	30	31			27	28	29	30	31		

Please help me label the names of the month correctly.

Lets' first identify February from the above Calendar sheets.

Now that you know which one is February, can you figure out the following?

- (a) 1^{st} of March is a _____.
- (b) 31^{st} of January is a _____.
- (c) The Labour Day which falls on 1st of May is a Thursday. Then, the Independence Day falls on ______day.
- (d) If 5th of September, Teacher's Day, falls on Friday, then, 2nd of October, Gandhi Jayanti is on ______ day.

Now figure out this Calendar for the rest of the year

Theme 6: Prize Money

Three school students Ved, Mallika and Juhi bagged the First Prize in a model making competition based on Artificial Intelligence. The prize money of Rs. 18000 was distributed equally among them by the Principal.



Q1.

Ved spends 40% of his prize money of Rs 6000. He spends the money in the following ratio:- clothes:books:musicCDs = 10:2:3.

(i) Find the amount he spends on music CDs.

ii) Find out how much more he spends on clothes as compare to books?

Q2. Malika invests her Rs. 6000 at the rate of 4% per year simple interest. Calculate the amount Malika receives at the end of the first year

Theme 7: Football Match

The results of the school's senior football team during a year are recorded, using W for a win L for a loss and D for a draw. They are:

L	L	W	D	L	W	L	W
L	L	D	L	L	W	W	L
W	L	L	W	D	L	L	W

1.

Complete the table given below.

Type of Result	Frequency	Pie chart angle (central angle)
W	8	$\frac{8}{24} \times 360^\circ = 120^\circ$
L		
D		
Total		360°

.2 Now complete the Pie chart



- Follow these instructions to complete the given pie chart:
- Complete the table given above to find out all the central angles.
- Take OA as the base and O as the centre and draw any one of the central angle using a protractor.
- Similarly draw all the central angles.

Question 8 : Matching pairs

Which shape completes the matching pair?





D -

W -





?

Theme9 : Mathematical operations

i)

If p stands for '+',q stands for' \div ', r stands for'-'and 's' stands for " \times ", then find the value of 600 s 900 q 2700 p 800 r 1000.

A)

 $\bigcirc \mathbf{0}$

B)

01

C)

02

D)

03

If A denotes x, B denotes -, C denotes + and D denotes -, then 16C24B8D6B2A3=?



Question 10 : What is the perimeter of the following figure?



 \bigcirc

Question- Write Tables 1-25 in your copy and learn them by heart.

KENDRIYA VIDYALAYA HPC PANCHGRAM

HOLIDAÝ HOMEWORK AUTUMN BREAK

CLASS : IX MATHS

Question 1: Description of Item: In a village, four boys were playing in a ground. They planned to device a game using geometrical concepts. Ramesh took the lead and planned in the following manner: Four poles were marked in the ground as A, B, C, D. With the help of a rope, the poles were joined to form a quadrilateral. Now, Ramesh selected four boys such as P, Q, R and S and placed in the mid-points of the rope paths... After making this arrangement, they started playing throw ball in the order from P to Q; Q to R; R to S and finally from S to P.



On the basis of this arrangement, Ramesh asks the following questions to the other boys:

- i) Which geometrical shape is generated by PQRS?
- (a) Square
- (b) Rhombus
- (c) Rectangle
- (d) Parallelogram

- (ii) Justify the shape generated by PQRS with a geometrical principle.
- (iii) What shape is expected by the join of PQRS if ABCD forms a rhombus?
- **Question 2:** CROP FIELD : A farmer has a field ABCD. Field ABCD is in the shape of rhombus and P, Q, R and S are the mid-points of the sides AB, BC, CD and DA respectively. The farmer wants to crop wheat in area PQRS and mustard crop in rest of the region.
- 1. Which shape is formed with the region of wheat crop?
- 2. The farmer wants to fence the field with the wire, and then what is the length of wire required if side



of rhombus is 12m.

- 3. Find the diagonal AC if the side of rhombus field 12m and diagonal BD is 20m?
- 4. What is the use of mustard crop in our daily life?

Question 3: 1. Three scouts Razat, Rohit, and Ramit in the cultural show with three stringed balloons with a message 'stop child labour', keeping themselves on the boundary of circle of radius 25cm. Find the distance between Razat and Ramit when distance between Razat and Rohit and Ramit is 30cm.

- A. 24
- **B. 48**
- *C.* 36
- D. 12

Question 4:. A small cottage industry employing people from a nearby slum area prepare round table clothes having six equal design in the six segment

formed by equal chords AB, BC, CD, DE,EF and AF. If O is the centre of round table (see figure). Find AEB and AFB. A. 600 Both

- B. 900 Both
- C. 300 Both
- D. 450 Both



Question 5: In this figure ABCD is a quadrilateral whose vertices are on a

semicircle such that AB=BC=CD=10cm and AD is a diameter of circle having centre at O. Find the perimeter of the quadrilateral ABCD. A. 30

- B. 100
- *C.* 50
- D. 70



Question 6:

Dinesh has a regular hexagonal shaped plot in a corner of village Ramgarh. Each side of the hexagonal plot is 10 m. He wants to fill the hexagonal shaped plot by equilateral triangles shaped tiles.



- 1. How many equilateral triangles of side 10 m are there in the hexagonal plot?
 - A. 2
 - **B.** 4
- **C.** 6
- **D.** 8
- .2. What is the area of the hexagonal shaped plot?
 - A. 100√3 m2
 - B. 150√3 m2
 - C. 200√3 m2
 - D. 250√3 m2
- Q 3. If each side of equilateral triangular shaped tile is 2 m, then what is the area of each tile?

- Q 4. What is the number of equilateral triangular tiles of side 2 m that is required to fill the hexagonal plot?
- A. 150
- **B. 200**
- **C. 250**
- D. 300
- Complete your class notebook and put a cover on that.
- Practice previous chapters.
- Do one activity from your choice as prescribed in your textbook.

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# KENDRIYAVIDYALAYA HPC PANCHGRAM

CLASS- X

# HOLIDAY HOMEWORK

## **AUTUMN BREAK**

**Cct Questions for board exam** 

**Question 1:** Rashiof height 135 cm is walking away from the base of a lamp post at a speed of 1.2 m/s . If the lamp is 3.6 m above the ground.



Question1.1-What will be the length of her shadow after 4 seconds?

- A) 1.44 m
- B) 2.80 m
- C) 2.88 m
- D) 1.35 m

Question 1.2-.What is the minimum time after which her shadow will become larger than her original height?

- A) 1 sec
- B) 2 sec
- C) 3 sec
- D) 4 sec

Question 1.3-Which similarity criterion is used in solving the above problem

- A. SAS similarity criterion
- B. AA similarity criterion
- C. SSS similarity criterion
- D. none of these

Question 2: Pythagoras theorem

Q.2.1- Two poles of height 12m and 22 m stand on a plane ground. If the distance between their tops is 26 m, the distance between their feet is

| A ) 12metres | B) 22metres |
|--------------|-------------|
| C) 24metres  | D) 26metres |

Q.2.2-A ladder 15 m long reaches a window which is 9 m above the ground on one side of a street. Keeping its foot at the same point the ladder is turned to the other side of the street to reach a window 12 m high. Find the width of the street.

- A ) 12 m
- B ) 9 m
- C ) 18 m
- D ) 21 m

Question 3: Two triangles are similar; if their corresponding angles are equal and their corresponding sides are in the same ratio (or proportional). Also the ratio of areas of two similar triangles is equal to the ratio of the squares of any two corresponding sides. Now answer the following QuestionsQuestion 3.1- If the sides of a triangle are increased by by 50% to make a similar triangle. What is the percentage increase in area?

| A ) 50 % | <b>B) 100 %</b> |
|----------|-----------------|
| C) 125 % | D)75%           |

Question 3.2-What will be the ratio of areas of original triangle to the similar triangle made in the above question?

| Α | ) 1 | B) | 4 |
|---|-----|----|---|
|---|-----|----|---|

C) 16 D )3

Question 3.3-By what percent the area will decrease if sides of triangle is decreased by 50%?

| A ) 50 % | <b>B) 100 %</b> |
|----------|-----------------|
| C) 125 % | D)75%           |

**Question 4:** Suresh has a rectangular sketch, which he needs to draw on a paper of length and breadth 32 units & 16 units respectively, using a plotter. Plotter is a device which is attached to a computer like a printer. It is used for drawing complicated sketches. Plotter accepts only positive

coordinates where the point (0,0) is the left-bottom corner of the paper . The sketch ABCD needs to be centrally aligned on the paper. Find the coordinates of A,B,C and D to be plotted to get the sketch plotted as needed.



Question 4.1 The coordinates of point O in the sketch 2 is \_\_\_\_\_\_. (I) (0,0) (ii) (16,8) (iii) (8,16) (iv) (16,32) Question 4.2: The coordinates of A, B, C, D are :

(i) (32, 10), (32, -10), (32, 6), (32, -6)

(ii) (19, 10), (19, -10), (13, 6), (13, -6)

(iii) (13, 10), (19, 10), (19, 6), (13, 6)

(iv) (13, -10), (19, 10), (13, -6), (19, -6)

Question 4.3: In the sketch 2, if the point O divides  $A\overline{C}$ in the ratio k : 1, then the value of k is \_\_\_\_\_\_. (i) 2 (ii) 1 (iii) 12 (iv) 3

Question 4.4: The point on the y-axis (in sketch 2) which is equidistant from the points B and C is \_\_\_\_\_\_. (i) (0, 8) (ii) (8, 0) (iii) (-8, 0) (iv) (0, -8)

Question 4.5: The point on the x-axis (in sketch 2) which is equidistant from the points C and D is \_\_\_\_\_. (i) (0, -16) (ii) (16, 0) (iii) (-16, 0) (iv) (0, 16)

### **Question 5:**

5.1 Imagine a circle with radius 1 cm rolling completely along the circumference of a circle with radius 4 cm. How many rotations did the smaller circle make?

A. 5 B. 2 C. 1 D. 5

5.2: 40 boys and 28 girls stand in a circle, hand in hand, all facing inward. Exactly 18 boys give their right hand to a girl.

A. How many boys give their left hand to a girl?

**B.** What if 28 boys give their right hand to a girl?

**C.** What will be your answer if both boys and girls are 28 in number?

5.3. In the figure below, the in-circle is tangent to  $\triangle$ ABC at points D, E, F. 2 $\vee$ , 4 $\vee$ , and  $\vee$  are the lengths of the common tangents to the semicircles

of diameters (BD, CD), (CE, AE), and (AF, BF) respectively.



### What is the radius of the in-circle?

Playing with toy telephone using Coordinate Geometry

# **Question 6:**



Ram, Shyam, Mohan and Kabir are four friends. They want to play with toy telephone. Their positions are respectively A, A', A'', A''' as shown in the figure. They have their toy telephones connected to each other, telephones are connected with the string. With help of above conditions, answer the following questions:-

- 1) What are the coordinates of A, A', A'', A'''?
- 2) Find the distance between Ram and Shyam, Ram and Mohan.
- **3)** What are the coordinates of, the mid-point of the string which is connected to Ram and kabir?
- 4) What are the coordinates of, the mid-point of the string which is connected to mohan and Shyam?
- 5) What is the area of AA'A"A"?

**Question 7:** Mrs. Ramya wants to make a rangoli design in triangular form with vertices A(6,4), B(4,2) and C(8,2).She divides it into four equal parts.



QUESTION 1: What is the area of red triangle ABC? (a) 1 sq. units (b) 2sq. units (c) 4 sq. units (d) 8sq. units QUESTION 2: What is the area of yellow triangle DEF? (a) 8 sq. units (b) 4 sq. units (c) 2sq. units (d) 1sq. units QUESTION 3: Now, She divides yellow triangle DEF into four equal parts. What is the area of green triangle HIG?

(a) 1/4 sq. units (b) 4 sq. units (c) 1/2sq. units (d) 2sq. units

QUESTION 4: What is the ratio of green triangle HIG to red triangleABC?(a) 4:1(b) 1:4(c) 1:16(d) 16:1

QUESTION 5: The cost of painting of 1 square unit is rupees 7.what will be the cost of painting of Rangoli for whole triangle ABC?

(a) Rs.7 (b) Rs.14 (c) Rs.21 (d) Rs.28

# **Question 8** A man has a sugarcane with end points A(3,2) and B(7,5).



QUESTION 1: What will be the length of sugarcane?(a) 16 units(b) 9 units(c) 25 units(d) 5 units

QUESTION 2: Now he wants to distribute a sugarcane AB for his two children equally. Then, at what point he will cut the sugarcane equally?

(a) (3,7) (b) (2,5) (c) (5,3.5)(d) (3.5,5)

QUESTION 3: The end points and mid-point of sugarcane AB are:-

```
(a) Collinear (b) non-collinear
```

QUESTION 4: If he wants to distribute sugarcane into four equal parts (one for his wife, one each to two children and one for himself) then, the coordinates of the points which divide the sugarcane into four equal parts are

- (a) (2.75, 4), (3, 7), (4.25, 6)
- (b) (4, 2.75), (2, 5), (6, 4.25)
- (c) (4, 2.75), (5, 3.5), (6, 4.25)
- (d) (5, 3.5), (3.5, 5), (3, 7)

#### KENDRIYA VIDIYALAYA PANCHGRAM SCIENCE CLASS :-VI

**1.**Make a working model of an Air Pump using plastic bottle.

2. Imagine yourself as a Dietician. Prepare a diet chart for 05

students of your class by keeping in mind the concept of Balance Diet.

- Q3. Draw the two types of dustbins according to their colour codes. Also enlist and paste at least five items which are disposed in each type of dustbin. (To be done in science notebooks).
- 4. Write a short note on following topics :-
- i) Green House effect
- ii) Vitamins
- iii) Balance diet
- iv) Different habitats
- v) Cartilage
- vi) Types of object
- vii ) Global warming
- vii) Different methods of separations

#### **KENDRIYA VIDYALAYA PANCHGRAM**

### **CLASS : VII Science**

### A.Solve the given assignment in your science H.W. notebook.(Subject Enrichment Activity based on CCTS).

#### ASSIGNMENT

1. A goat eats away all the leaves of a small plant (balsam). However, in a few days, new leaves could be seen sprouting in the plant again. How did the plant survive without leaves?

2. . Unscramble the following to form terms related to modes of nutrition. (i) RASPAEIT (ii) ROPEHYTSAP (iii) TOROPHAUT (iv) SIBIOMSYS

3. Nitrogen is an essential nutrient for plant growth. But farmers who cultivate pulse crops like green gram, bengal gram, black gram, etc. do not apply nitrogenous fertilizers during cultivation. Why?

4. Wheat dough if left in the open, after a few days, starts to emit a foul smell and becomes unfit for use. Give reason.

5. Sunlight, chlorophyll, carbon dioxide, water and minerals are raw materials essential for photosynthesis. Do you know where they are available? Fill in the blanks with the appropriate raw materials. (a) Available in the plant :

\_ (b) Available in the soil : \_\_\_\_\_, \_\_\_\_,

(c) Available in the air :

\_ (d) Available during day : \_\_\_\_\_

6. Name the parts of the alimentary canal where (i) water gets absorbed from undigested food. (ii) digested food gets absorbed. (iii) the taste of the food is perceived. (iv) bile juice is produced

7. Choose the odd one out from each group and give reasons. (i) liver, salivary gland, starch, gallbladder (ii) stomach, liver, pancreas, salivary gland (iii) tongue, absorption, taste, swallow (iv) oesophagus, small intestine, large intestine, rectum

8. Fill in the blanks with suitable words: (a) The alimentary canal stretches from to . ......(b)Digestion of food starts in and gets

completed in ...... (c) the largest gland in the human body is.....

9. Ruminants such as cows and buffaloes swallow their food hurriedly and then sit restfully and chew their food. Can you reason why?

10.The teacher told her students the story of two friends. She told them that, in the story, the friendship, between

a visually challenged boy and a lame boy, helps them both to face, and overcome, the very many challenges

of their day-to-day life. She went on to compare their friendship with the 'symbiotic relationship' between

two organisms.

a. Suggest any two 'values' that, according to you, must have been there in the two friends. b. In what way is the friendship, between the two boys, similar to the 'symbiotic relationship' between two

organisms?

- c. Give one example of a 'symbiotic relationship' between two organisms.
- B. Make a newsletter having 20 science related news.
  - C. Prepare a chart and presentation on any one topic of your choice from your syllabus.
- D.Finish the given Art Integrated Activities in your Activity Notebook.
- 1.Complete the web chart



2.Draw the diagram of a Plant showing the process of photosynthesis.

3.Explain the two modes of nutrition in plants with the help of Flow Chart. Read and write the given Experiment in your Activity Notebook and grow your own bread mould, take pictures and paste in same Notebook (Record Video of full process of growing bread mould)

AIM:

To grow your own bread mould.

#### THINGS NEEDED:

Three slices of bread, water, marker, three resalable bags

THEORY:

These organisms are called fungi. They have a different mode of nutrition. They secrete digestive juices

on the dead and decaying matter and convert it into a solution. Then they absorb the nutrients from it. This mode

of nutrition in which organisms take in nutrients in solution form from dead and decaying matter is called

saprotrophic nutrition. Plants which use saprotrophic mode of nutrition are called saprotrophs. Fungi also grow on

### pickles, leather, clothes and other articles that are left in hot and humid weather for long time. PROCEDURE:

- 1. Place a slice of bread in each bag and seal it properly
- 2. Number each bag with the marker
- 3. Add some water to first bag and put it in dark place
- 4. Put the second bag in bright sunny place
- 5. Put the third bag in the refrigerator

6. Check each bag after a week and record the observation

#### **OBSERVATION:**

1. You may have also seen fluffy umbrella-like patches growing on rotting bread. 2. At the end of the week each bag will have a different kind of mould growth



#### **CONCLUSION:**

Bread is a good food source for some kinds of fungus. The air around us is full of microscopic mould

spores that require the right condition to settle on an organic substance and digest it. PRECAUTION:

Mould spores just need the right environment to grow and flourish.

# Think about a project / model and work on it to participate in National Children Science Congress (NCSC 2022).

#### KENDRIYA VIDYALAYA PANCHGRAM Autumn Break Holiday Homework

#### **VIII Science**

- Q1. In which female reproductive organ does the embryo get embedded ?
- Q2. Draw a labelled diagram of sperm.
- Q3. What is metamorphosis ? Give examples
- Q4. What is irrigation? Describe two methods of irrigation which conserve water.
- Q5. Make a sketch of the human nerve cell. What function do nerve cells perform?
- Q6. Make sketches of animal and plant cells. State three differences between them.
- Q7. What is the name given to the green plastids?
- Q8 List conditions under which combustion can take place.
- Q9. Make a labelled diagram of a candle flame.

Q10. Give reasons.

- (a) Water is not used to control fires involving electrical equipment.
- (b) LPG is a better domestic fuel than wood.
- (c) Paper by itself catches fire easily whereas a piece of paper wrapped around an aluminium pipe does not.
- Q11. Why are coal and petroleum known as fossil fuels ?
- Q12. Give reasons for the following.
- (a) Aluminium foils are used to wrap food items.
- (b) Immersion rods for heating liquids are made up of metallic substances.

- (c) Copper cannot displace zinc from its salt solution.
- (d) Sodium and potassium are stored in kerosene.
- Q13. Explain why plastic containers are favoured for storing food.
- Q14. Write a short paragraph on the harms caused by microorganisms.
- . Think about a project / model and work on it to participate in National Children Science Congress (NCSC 2022).

#### **KENDRIYA VIDYALAYA PANCHGRAM**

**IX-SCIENCE** 

#### **AUTUMN BREAK HOLIDAY HOMEWORK**

- Q1. How will you separate a mixture containing kerosene and petrol (difference in their boiling points is more than 25°C), which are miscible with each other?
- Q2 State the principle of Separation of Mixtures Using Different Techniques with examples.
- Q3. State the structure and function of different cell organelles.
- Q4. Explain osmosis. What happens when a cell is kept in hypotanic, hypertonic and isotonic
- solution. Draw diagram also.
- **Q5.** Differentiate between
- a. Parenchyma, collenchyma and sclerenchyma
- b. Smooth, straited and cardiac muscles
- c. Tendon and ligaments.
- d. Blood and lymph
- Q6. Write the location and function of different epithelial tissues.
- **Q7. Differentiate between**
- a. Speed and velocity
- **b.** Distance and displacement
  - 2 Uniform and non-uniform motion.
  - Q7. Draw graph from motion chapter.
- Q8. Write equations of motion.
- Q9. Explain inertia with example.
- Q10. State Newton's laws of motion with example.
- Q11. State law of conservation of momentum. Give examples
- **Q12.** Differentiate between
  - 9. Compound and mixture
  - 10. Homogeneous and heterogeneous mixture

- 11. Solution, colloids and suspension
- **12.** Sol, emulsion and fog

. Think about a project / model and work on it to participate in National Children Science Congress (NCSC 2022).

#### KENDRIYA VIDYALAYA PANCHGRAM

#### Subject-SCIENCE

#### CLASS-Xth

#### **Biology:-**

- 1. Make a project file in which write down following topic :
  - i) Diagram of Human brain
  - ii) Heart fig.
  - iii) fig of Hormonal glands
  - iv) Digestive system fig
  - v) Nephron fig

**Chemistry:-**

- 1 Table of different chemical formula
- 2. Chart of purification method of minerals

#### **Physics:-**

- 1 Diagram of eye
- 2. Diagram of different eye defect

#### **KV HPC PANCHGRAM**

#### AUTUMN BREAK HOLIDAYS HOMEWORK (2022-23)

#### **CLASS VI Social Science**

#### 1. ART INTEGRATED PROJECT on General information about Madhya Pradesh.

a) Handwritten cover page showing project title, student's name, class, section, school's name and academic year.

b) Index page should include names of the subjects, page no. and a column for teacher's sign.

c) Page limits: Minimum 3 Maximum 5 limits excluding cover page, index page.

Topic: General information about Madhya Pradesh.

2. To revise all chapters taught in the month of September and complete pending Homework.

3. To write an article on Gallantry awards in India <u>https://www.gallantryawards.gov.in/</u>

#### **CLASS VII Social Science**

1. ART INTEGRATED PROJECT: <u>Traditional Folk songs and Dance forms of Madhya</u> <u>Pradesh.</u>

a) Handwritten cover page showing project title, student's name, class, section, school's name and academic year.

b) Index page should include names of the subjects, page no. and a column for teacher's sign.

c) Page limits: Minimum 3 Maximum 5 limits excluding cover page, index page.

Topic: Traditional Folk songs and Dance forms of Madhya Pradesh.

2. To write an article on Gallantry awards winners of India https://www.gallantryawards.gov.in/

3. To make a list of 10 Proverbs by individuals in Hindi and also their similar in Assamese language as part of *Ek Bharat Shreshtha Bharat*' activity.

#### **CLASS VIII Social Science**

1. ART INTEGRATED PROJECT: Traditional cuisines of Madhya Pradesh.

a) Handwritten cover page showing project title, student's name, class, section, school's name and academic year.

b) Index page should include names of the subjects, page no. and a column for teacher's sign.

c) Page limits: Minimum 3 Maximum 5 limits excluding cover page, index page.

Topic: Traditional cuisines of Madhya Pradesh.

2. To write an article on Gallantry awards winners of India <u>https://www.gallantryawards.gov.in/</u>

3. To make a list of 10 Proverbs by individuals in Hindi and also their similar in Assamese language as part of *Ek Bharat Shreshtha Bharat*' activity.

#### **CLASS IX Social Science**

1. To revise question answers from exercises and extra questions from chapter Nazism and the rise of the Hitler, for the forthcoming examination.

2. <u>Complete a Project report on A4 sheets and submit it in a Cover file on the theme</u> '<u>Disaster Management'.</u>

a) Handwritten cover page showing project title, student's name, class, section, school's name and academic year.

b) Index page should include names of the subjects, page no. and a column for teacher's sign.

3. To make a list of 10 Proverbs by individuals in Hindi and also their similar in Assamese language as part of *Ek Bharat Shreshtha Bharat*' activity.

#### **CLASS X Social Science**

1. To revise question answers from exercises and 'Let find this out' given from chapter Globalisation and the Indian economy for forthcoming examination.

2. To practice a sample question paper of 80 marks in a Holiday notebook.

3. Complete a Project report on A4 sheets and submit it in a Cover file on theme 'Consumer Rights'.

a) Handwritten cover page showing project title, student's name, class, section, school's name and academic year.

b) Index page should include names of the subjects, page no. and a column for teacher's sign.

#### KENDRIYA VIDYALAYA PANCHGRAM AUTUMN BREAK ENGLISH HOMEWORK 2022-23 Class: VI

#### Note - Write in a separate Holiday HW English copy

- 1. Write a paragraph on -National Integration
- 2. Write an application to the Principal asking for 3 days leave, as you are going out of station.
- 3. Rearrange the following sentences-
- a. river/boy/the/into/fell/ the.
- b. needs/ she/glass/a/water/of.
- c. Ram/going/is/the/to/market.
- 4. Write the story of Tansen in your own words.

#### **CLASS- VII**

DO the holiday homework in a seperate holiday homework copy.

- 1. Use the hints given below and develop a story in your own words in about 120-130 words. A boy falls in a bad company...... father brings apples....,put them in the cupboard.....places a Rotten apple among them..... Next day all apples rotten..... teaches a lesson.
- 2. Rearrange these words to make meaningful sentences.
  - (i) ship / violently / the storm / rocked / the
  - (ii) masterpiece / artist / painstakingly / the / his / worked / at
  - (iii) gift / free / a/Dad / offered / firm/ by the /was.
  - (iv) I read / paper / in the / burglar / been / caught / had / the / that.
  - (v) nightfall / began / cricketers / the / at / thier piercing calls.

#### 4. Write a paragraph writing on Durga Puja...( words limit 80)

#### KENDRIYA VIDYALAYA PANCHGRAM AUTUMN BREAK ENGLISH HOMEWORK 2022-23 Class: VIII

#### Note - Write in a separate Holiday HW English copy

- 1. Write letter to your father requesting him to buy a new bicycle.You are Ruchi/ Arpit living at Pataliputra colony hostel no.6, Bhopal. (Words limit :100)
- Rearrange these words to make meaningful sentences.
   (vi) wore / a hat/he/ of coconut / made / fiber /his / on / head.
   (vii) parts / many / coffee / popular in /world/ the / is / very / of.
   (viii) cave / could / explore / not/they/torch /the / without/a.
   (ix) the storm /shed / damaged / the /was / during.
   (x) the dog / James / talking / sat next to / himself /to.

3. Read the beginning line and complete the story. "One day while going to school, I saw a puppy badly hurt.....".[ Hints: This is Jody's Fawn]

### KENDRIYA VIDYALAYA PANCHGRAM AUTUMN BREAK ENGLISH HOMEWORK 2022-23

#### Class: IX

- **1. READING : Read about Santosh Yadav & Maria Sharapova, and write a paragraph about each.**
- 2. WRITING: Write a diary entry about how you enjoyed the celebration of your birthday last week when several friends and relatives made the occasion lively and worth remembrance. Write it in about 100-150 words.
- 3. GRAMMAR: Revise rules of Subject Verb Concord, Model Verb (Ought to, shall, will, should would, can, could etc.).
- 4. SPEAKING: Practice an effective Introduction of yours. (Hint: Name, Hobbies, dreams, aspirations, likes, dislikes, family, strength, weakness etc.)
- 5. ART INTEGRATED PROJECT
- Prepare a file as a group work [Group 1-roll 1-7, Group 2 roll 8-14] highlighting the following features of the state of Madhya Pradesh[photos & write up]:
- i. art
- ii. culture
- iii. literature
- iv. dress
- v. cuisine/food

#### vi. geographical features

vii. famous/popular

#### KENDRIYA VIDYALAYA PANCHGRAM AUTUMN BREAK ENGLISH HOMEWORK 2022-23 Class: X

- 1. READING : Read about Richard Ebright& Gautama Buddha, and write a paragraph about each.
- 2. WRITING: The graph given shows estimated sales of gold in Dubai in 2002. Write an analytical paragraph describing the line graph in around 150 words.



- 3. GRAMMAR: Revise rules of Subject Verb Concord, Modal Verbs (Ought to, shall, will, should would, can, could etc.).
- 4. SPEAKING: Practice an effective Introduction of yours. (Hint: Name, Hobbies, dreams, aspirations, likes, dislikes, family, strength, weakness etc.)
- **5. ART INTEGRATED PROJECT**
- Prepare a file as a group work [Group 1-roll 1-7, Group 2 roll 8-15] highlighting the following features of the state of Madhya Pradesh[photos & write up]:
- i. art
- ii. culture
- iii. literature
- iv. dress
- v. cuisine/food
- vi. geographical features
- vii. famous/popular

SOMA NATH TGT ENG. KV, PANCHGRAM

# केंद्रीय विद्यालय पांचग्राम सत्र-2022-23 शरदकालीन अवकाश गृहकार्य

विषय - हिंदीकक्षा - छह

- 1. अपनीपाठ्यपुस्तकसेकोईदोकविताएंयादकीजिए।
- 2.हमारे देश में तरह-तरह के भोजन, तरह-तरह की पोशाक प्रचलित है।अलग-अलग प्रदेशों की पोशाक एवं प्रमुख भोजन की सूची तैयार करतथा उन के चित्र A4 पेपर या कॉपी पर बनाकर/ चिपका कर प्रदर्शित करें।

विषय - हिंदीकक्षा - सातवीं

- भारत का मानचित्र अपनी कॉपी में लगाइ एत था उसमें भारत के जिन प्रांतों में हिंदी बोली जाती है उन के नाम लिखिए व उन्हें अलग-अलग रंगों से दर्शाइए।साथ ही 10 भाषाओं की लिपि भी लिखिए।
- 2. हिमालय पर्वत से निकलने वाली नदियों व उनके किनारे ब से शहरों के नाम , नदियों से होने वाले लाभ व उनकी सुरक्षा के लिए किए जा रहे कार्य के बारे में संक्षिप्त जानकारी कॉपी में चित्र सहित लिखें।
- 3. 'आपकी छुट्टियां कैसे बीती?' विषय परअपने अनुभव को एक अनुच्छेद के रूप में लिखिए।

शरदकालीन अवकाश गृहकार्य

### विषय - हिंदी कक्षा - आठवीं

- हिंदी के किन्हीं पांच कवियों का जीवन परिचय लिखिए तथा उन के चित्र (फोटो) संग्रह कीजिए
- 2. अपने मन से कोई एक कहानी लिखिए। (300 शब्दों में)
- 3. किन्हीं पांच कविताओं का संकलन कीजिए।
- दो मित्रों के बीच संवाद लिखिए। जिसमें भरपूर मुहावरों का प्रयोग किया गया हो। (40 से 50 शब्दों में)

### शरदकालीन अवकाश गृहकार्य

कक्षा - नौवीं

- प्रश्न 1. निम्नलिखित प्रस्थान बिंदु के आधार पर 100 से 120 शब्दों में शीर्षक सहित एक लघू कथा लिखिए-
- एक बूढ़ा किसान था। उसके चारों पुत्र आपस में झगड़ा करते थे। किसान बहुत दुखी था। उसने एक दिन अपने चारों पुत्रों को बुलाया, दुखी मन से कहा, " आपस में झगड़ा करना नहीं करना चाहिए और तुम लोगों को मिल जुल कर रहना चाहिए।" पिताजी की बातें सुनकर चारों पुत्र वहाँ से चले गएँ। पर लड़ाई-झगड़े का सिलसिला जारी रहा, फिर एक दिन उस बूढ़े किसान ने एक उपाय सोचा.....

प्रश्न 2. निम्नलिखित विषयों पर 120 शब्दों का अनुच्छेद लिखिए।

1. एक भारत श्रेष्ठ भारत

2. नई शिक्षा नीति 2020

प्रश्न 3. "गीता पुस्तक पढ़ती है।" इस वाक्य को अर्थ के आधार पर वाक्य के आठों ( 8) भेदों में रूपांतरित कीजिए।

शरदकालीन अवकाश गृहकार्य

कक्षा - दसवीं

प्रश्न 1. लड़कियों की घटती संख्या के बारे में जन जागरूकता लाने के उद्देश्य से 25 से 50 शब्दों में एक विज्ञापन लिखिए | अथवा आप एक नया मोबाइल शोरूम खोलने जा रहे हैं किसी स्थानीय समाचार पत्र में देने के लिए 25 से 50 शब्दों में एक विज्ञापन लिखिए।

प्रश्न 2. निम्नलिखित विषयों पर 120 शब्दों का अनुच्छेद लिखिए। 1.एक भारत श्रेष्ठ भारत 2.नई शिक्षा नीति 2020 प्रश्न 3. निर्देशानुसार वाक्य परिवर्तन कीजिए-लोग खाना खा रहे होंगे | (कर्मवाच्य) अनेक आतंकवादियों को मारा गया | (कृत्य वाच्य) वह नहीं दौड़ा | (भाववाचक) यह पत्र श्भी ने भेजा होगा | (कर्मवाच्य)

# केंद्रीय विद्यालयपांचग्राम सत्र - 2022-23 अवकाश गृहकार्य विषय षष्ठी - संस्कृत कक्षा -

- 1. बालकबालिका और पुष्प शब्द के रूप लिखकर याद कीजिए।,
- पठ् हस् धातुओं के लट्लकार के रूप लिखकर याद,चल् ,गम् ,लिख् , कीजिए।
- दशपुष्पफलशाकानां चित्राणि संगृहय तेषां संस्कृतनामानि लिखित्वा।
   (दस–दस फूलों फलों एवं सब्जियों के चित्र एकत्रित कर उनके संस्कृत नाम लिखिए।)
- 4. केषाञ्चन पञ्चानां वन्यजीवानां, पालतूपशूनां, पक्षिणां च चित्राणि संगृहय तेषां संस्कृतनामानि लिखित्वा।
- (किन्हीं पांच -पांच वन्य पशुओं, घरेलू पशुओं एवं पक्षियों के चित्र एकत्रित कर उनके संस्कृत नाम लिखिए।)
- 5.संस्कृत प्रार्थना एवं संस्कृत छात्र प्रतिज्ञा लिखकर याद कीजिए।

### केंद्रीय विद्यालयपांचग्राम सत्र - 2022-23

### अवकाश गृहकार्य

### विषय - संस्कृत कक्षा - सप्तमी

- 1. बालक, बालिका और पुष्प शब्द के रूप लिखकर याद कीजिए।
- पठ्, लिख्, गम्, चल्, हस् धातुओं के लट्लकार के रूप लिखकर याद कीजिए।
- दशपुष्पफलशाकानां चित्राणि संगृहय तेषां संस्कृतनामानि लिखित्वा।
   (दस-दस फूलों फलों एवं सब्जियों के चित्र एकत्रित कर उनके संस्कृत नाम लिखिए।)
- केषाञ्चन पञ्चानां वन्यजीवानां, पालतूपशूनां, पक्षिणां च चित्राणि संगृहय तेषां संस्कृतनामानि लिखित्वा।
- (किन्हीं पांच -पांच वन्य पशुओं, घरेलू पशुओं एवं पक्षियों के चित्र एकत्रित कर उनके संस्कृत नाम लिखिए।)
- 5. संस्कृत प्रार्थना एवं संस्कृत छात्र प्रतिज्ञा लिखकर याद कीजिए।

केंद्रीय विद्यालयपांचग्राम सत्र - 2022-23 अवकाश गृहकार्य विषय - संस्कृत कक्षा - अष्टमी

- 1. अपनी संस्कृत पाठ्यपुस्तकके अतिरिक्त संस्कृत के 10 श्लोक खोजकर लिखिए।
- 2. संस्कृत छात्र-प्रतिज्ञा तथा संस्कृत प्रार्थना लिखकर याद कीजिए
- 3. शब्द रूप लिखो- कवि ,नदी ,साधु ,राजन् ,अस्मद् ,युष्मद्।
- 4. धातु रूप लिखो- कृ, भू, अस्, वस् ,पच् , लिख्।( पांचो लकारों में)
- 5. 1 से 100 तक संस्कृत में गिनती लिखकर याद करो।

### Holiday Home Work Subject: Arts

#### Class VI (1) Make a scenery.

Class VII (1) Make a Landscape Painting

Class VIII (1) Make a Landscape Painting

Class IX (1) Make a Painting on Ek Bharat Shrestha Bharat (2) Make Traditional toys

Class X (1) Make a Painting on Ek Bharat Shrestha Bharat (2) Make Traditional toys