

The Punjab Public School Nabha Holiday Home Work

Winter Break (Dec 2024– Jan 2025)

Class-VII (CAMBRIDGE)

<u>ENGLISH</u>

- 1. Write a diary entry every day.
- Revise tenses, Voice and write 10 sentences of each tense. Write 10 sentences of interrogative and imperative Write 10 sentences of voice.
- 3. Write essay on the following topics in 150-200 words:
 - A) How would you view yourself in next 20 years.
 - B) If you could get a superpower for a day, what would it be and how would you use it.

MATHEMATICS

- 1. Activity 1: Show corresponding angles and alternate interior angles are equal and co interior angles are supplementary by cutting and pasting. (everything has to be done in a scrap book)
- 2. Activity 2: Think any 10 points of your choice, e.g. A(2, -3), B(5,8) etc. Plot these points on a graph paper and join them in order from point A to point B and so on till point J. Paste this graph paper in scrap book as above.
- 3. Activity 3: Draw maximum number of 3 sided figures (Triangles) and 4 sided figures (Quadrilaterals rectangle, square, parallelogram, rhombus, kite etc) on the same scrap book. Draw the lines of symmetry of these figures.
- 4. Activity 4: Select any 10 articles in your home or around. Take a measuring tape or scale and make measure the dimensions of these articles in cm. Record this data in a table similar to as shown below.

Name of the	Length	Breadth	Height
article			
Match box	5.3 cm	3.2 cm	1.4 cm
One page of a news	92 cm	43 cm	No height
paper			
Dining Table			
etc			
etc			

<u>SCIENCE</u>

(Physics/Chemistry/Biology)

- 1. Make a model of first twenty elements of periodic table.
- 2. Learn and write the question answers and exercise of chapters.
- 3. Working Model

1. Purify Water With Charcoal



Add 8 drops of red food coloring to the water and stir until mixed. Now, add 1/4 cup of colored water to each of the baby food jars. To one jar, add 2 teaspoons of the activated carbon. Put the lids on both jars and set the jars in a place where they won't be disturbed for a couple days.

2. Build a wave machine



Gather your materials. Then, place two stools about 6 feet apart.

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Stretch a piece of duct tape (sticky side up) between the stools and tape it to the underside of each stool.

Leaving about 1 foot of tape empty on each end, center the skewers along the tape, placing each one about $1 \frac{1}{2}$ " away from the one before it.

Waves can only travel things that are touching or connected. This is the purpose of the tape. A disturbance in one of the skewers twists the tape, causing a disturbance in the skewer after it and so on and so forth.

Push a gummy candy onto both ends of each skewer.

Tap the skewer on one end of the tape and see what happens! Did you see a wave form and roll down the line?

Link

https://www.kiwico.com/diy/play-learn/sound-music/wave-machine

Question: Explain the difference between breathing and respiration. (3)

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Question: Below is the example of mercury concentration in the food chain. Answer the following questions:



(i) State the term used in the above example of increasing mercury level in food chain.

(2)

(ii) Explain why organisms at the top of a food chain have higher concentration of mercury in their bodies than organisms at the base of the food chain? (2)

(iii) Do you think this can be prevented and if yes, how? (2)

Question: Explain how the biceps and triceps work as antagonistic muscles to move the arm at the elbow. (2)

Question: Suggest how you can make sure you get o like eating meat or fish.	enough protein in your diet, if you don't (2)
Question: Cats are predators. They eat other animals from, in their diet.	. Suggest where cats get this mineral (1)
Question: Why is water an important component in	every diet? (3)

cilia	inhale	Aerobic	mitochondria

- (i) is the cell organelle in which cellular respiration takes place.
- (ii) and mucus work to trap dirt and germs before we inhale.
- (iii) respiration takes place in the presence of oxygen.
- (iv) Breathing air is also called as

Question: Name the abiotic factors that affect the ecosystem. (any two) (2)

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Question: Your little brother's favourite meal is lamb burger and fries, with a sweet milky drink.



(a)	What nutrients does he get from this meal?	(1)
(b)	What else should he include in his diet?	(1)

(c) Explain to him why he should not eat his favourite meal too often. (1)

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Question: Label any six bones and 2 joints in the below diagram of skeleton. (4)



Question: Explain why the food web could not exist without the producers? (2)

Question: Make three food chains using the following organisms. (3)

Grasshopper, frog, snake, vulture, grass, rat, deer, lion

Question : Name any two minerals that we need to eat in our daily diet. (2)