



The Punjab Public School Nabha
Holiday Home Work

Winter Break (Dec 2024– Jan 2025)

Class-VIII (CAMBRIDGE)

ENGLISH

- a) **Write any 10 emails of your own choice the way it is done in the class.**
- b) **Read newspaper daily.**

MATHEMATICS

1. Write any 10 tricks of Vedic maths.

2. Make 10 mathematical puzzles

For example:

$$2 \square 1 \square 6 \square 6 = 48$$

+ - × ÷

3. Activity: Show that the sum of exterior angles of a pentagon is 360. You can use a thick chart paper or cardboard for this practical activity. You can always call me for any assistance.



PHYSICS/CHEMISTRY

Research on the following topics

Chemistry (Choose any two topics from Java Lab)

1. Physics
Light, Electricity
2. Chemistry

Atoms, Chemical Reactions
Write the detail of these activities in your Notebook

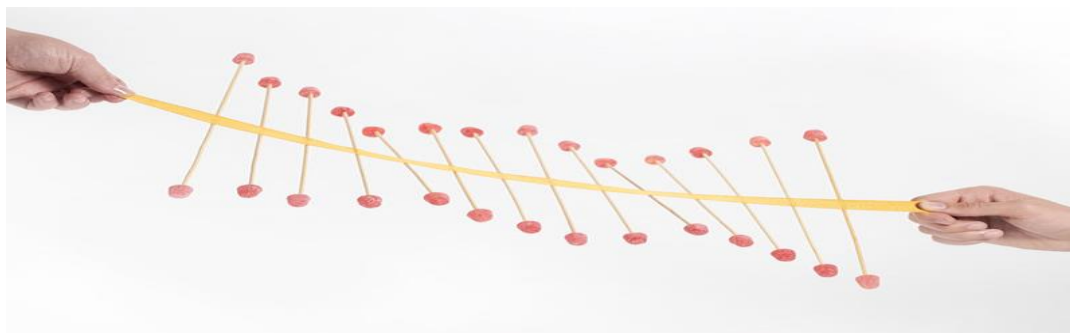
Working Model

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 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>

BIOLOGY

1. Use a scrap book or make a poster or power point presentation on “Double Helical Structure of DNA. Do mention all the features, structure, functions.
2. Use a scrap book -Mention the techniques used to detect/ solve criminal cases using DNA fingerprinting.
Paste pictures or Newspaper articles on this topic.

email it to dilpreet.shergill@gmail.com.
