

APEEJAY SCHOOL : SHEIKH SARAI : NEW DELHI
HOLIDAY HOME-WORK (2015)
CLASS - VIII

ENGLISH

Make charts or draw and write on pastel sheets in a file about :

A1 – Adventures in Space.

A2 - Stories of Adventure

A3 – Science Fiction

SCIENCE

Physics

WORKSHEET NO . I
FORCE and PRESSURE

- Q.1 What makes an object change its speed or direction of motion ?
- Q.2 When does a force come into play ?
- Q.3 Why is it easier to push a heavy box when two forces are acting along the same direction rather than in the opposite directions ?
- Q.4 What happens when you apply a force on an inflated balloon by pressing it between your palms ?
- Q.5 What happens when a magnet put on rollers is subjected to the influence of another magnet ? Will it move towards or away from the other magnet ?
- Q.6 why does a ball moving on the ground stop after some time ?
- Q.7 What causes friction on any surface ?
- Q.8 Why is it easier to cut vegetables with a sharp knife ?
- Q.9 Define state of motion of an object .
- Q.10 Choose the correct word to fill in the blanks :
- Muscular ,Magnetic ,Gravitational , Electrostatic
- A) Animals use _____ to carry out difficult tasks for us.
- B) A straw acquires _____ charge after being rubbed by a sheet of paper.
- C) _____ force acts on iron pieces when a magnet is brought near them.
- D) Objects fall towards the Earth due to _____ force .
- Q.11 Why does a balloon get inflated when it is filled with air ?
- Q12. What is atmospheric pressure ?

Chemistry

ASSIGNMENT

Q1. M.C.Q.

i) PVC (Poly vinyl chloride) and Polythene are:

- (A) examples of thermosetting plastics.
- (B) examples of thermoplastics.
- (C) examples of natural substances.
- (D) examples of heavy fibers.

ii) Which of the following does not have cross linked arrangement:

- (A) Bakelite.
- (B) Melamine.
- (C) PVC.
- (D) None of these.

iii) Uniform of fireman is coated with:

- (A) Teflon.
- (B) Rayon.

Q2. What does the are 3R stand for _____

3. Categorise the following things according to the type of fibre from which they are made as natural / man made :

Woolen clothes _____ Paper _____

Silk Saree _____ Nylon Socks _____

Tooth Brush _____ Cotton Clothes _____

Q4- Name the monomer unit of the following:

- a) Cellulose
- b) Polyester
- c) P.V.C
- d) Polyethene

Q5. What are blended fibres ? Give any two examples.

Q6. Name the process of formation of polymer from its monomer .

Q7. Write the full form of PVC and PET

Q8. Which plastic can be used as a substitute of glass ?

Activities:

1.Paste the sample of cloth made up of type of fibre as mentioned below.

- i)Cotton
- ii) Wool
- iii)Silk
- iv)Nylon
- v)Polyester

2. Design an eco – friendly bag.

3. Cut pieces of old and discarded clothes. Categorize them as knitted or woven fabric. Separate thread from each of these fabrics. In which case is it easier to separate yarn and why ?

4. Visit your kitchen . Make a list of the objects , which are made up of the plastic . Also identify the type of plastic used .

BIOLOGY

NOTE :- Do this work in regular note book

Q1. Collect the pictures of modern agricultural machines and paste them in your notebook. Write the name and use of each machine.

Q2. Draw and name the diagrams of different kinds of micro organism on page 18 of your text book.

Q3. With the help of your parents make a table showing the date and the name of the vaccinations taken by you till today? Also write the name of the place, the doctor from whom you got vaccinated ?

S.ST

A. Make a model on any one of the given topics :

1 . A model of a tidal energy plant producing electricity.

2 . A model of a biogas plant.

B. Design a poster or make a chart on any one of the following topics .

1 . Right to Education .

2 . Secularism and Religious Tolerance .

C. Research on the topic – Solid waste generated daily in the city of Delhi ,waste management measures in the city and waste to energy generation etc. Pictures, illustrations and data are to be included.

NOTE ; Model can be made in groups of 4 to 5 students .

;Assignment B and C are to be done individually .

; Assignment C is to be done in the geography notebook .

MATHS

ASSIGNMENT

1) Draw a number line and represent the following on it

a) $-3/2$ b) $12/5$ c) $-7/5$ d) $3/8$

- 2) Compare the following
 a) $-\frac{9}{12}$ and $\frac{8}{-12}$ b) $-\frac{16}{20}$ and $\frac{20}{-25}$ c) $-\frac{7}{21}$ and $\frac{3}{-9}$
 d) $-\frac{5}{8}$ and $-\frac{3}{4}$ e) $-\frac{7}{12}$ and $\frac{5}{-8}$ f) $-\frac{4}{9}$ and $-\frac{3}{-7}$
- 3) Arrange the following in ascending order
 a) $\frac{3}{5}, -\frac{7}{10}, \frac{8}{-15}, -\frac{17}{-30}$ b) $-\frac{5}{11}, \frac{1}{-2}, -\frac{6}{7}, -\frac{3}{4}$ c) $-\frac{4}{9}, \frac{5}{-12}, \frac{7}{-18}, \frac{2}{-3}$
- 4) Arrange the following in descending order
 a) $\frac{4}{3}, -\frac{5}{6}, -\frac{7}{-12}, \frac{11}{-24}$ b) $-\frac{3}{10}, \frac{17}{30}, \frac{7}{-15}, -\frac{11}{20}$ c) $-2, -\frac{13}{6}, \frac{8}{-3}, \frac{1}{3}$
- 5) Find five rational numbers between -7 and -5 .
- 6) Find twelve rational numbers between $-\frac{3}{4}$ and $\frac{5}{6}$.
- 7) Evaluate the following
 a) $\frac{4}{7} + -\frac{8}{9} + -\frac{13}{7} + \frac{17}{21}$ b) $-\frac{7}{4} + 0 + -\frac{9}{5} + \frac{19}{10} + \frac{11}{14}$
 c) $\frac{2}{3} + -\frac{3}{5} + \frac{1}{6} + -\frac{8}{15}$ d) $\frac{4}{3} + -\frac{5}{8} + -\frac{8}{13} + \frac{9}{13}$
- 8) Simplify
 a) $(-\frac{16}{5} \times \frac{20}{8}) - (\frac{15}{5} \times -\frac{35}{5})$ b) $(-\frac{3}{2} \times \frac{4}{5}) + (\frac{9}{5} \times -\frac{10}{3})$
- 9) Simplify using the properties
 a) $(-\frac{4}{7} \times \frac{3}{4}) - (-\frac{4}{7} \times -\frac{2}{3})$ b) $(\frac{1}{2} \times -\frac{2}{3}) + (\frac{1}{2} \times -\frac{5}{6})$
- 10) $-(y \times z)$ for $x = \frac{3}{5}$, $y = \frac{2}{7}$ $z = -\frac{1}{3}$
- 11) Solve and check the following
 a) $x + 7 - \frac{16x}{3} = 12 - \frac{7x}{3}$
 b) $\frac{1x}{4} + \frac{1x}{6} = \frac{1x}{2} + \frac{3}{4}$
 c) $x - \frac{(3x-27)}{3} = 3$
 d) $0.3x + 0.4 = 0.28 + 0.16$
- 12) By adding 7 to a number, we obtain 49, find the number.
- 13) Sum of two numbers is 75. If one exceeds the other by 5, find the number.
- 14) A number consists of two digits whose sum is 8. If 18 is added to the number its digits are reversed. Find the number.
- 15) Sum of three consecutive integers is 24. Find the integers.
- 16) Present age of Sonu's mother is six times Sonu's age. Five years hence, her age will be 20 years more than that of Sonu's age. Find their present ages.
- 17) A number is divided into two parts such that one part is 10 more than the other. If the two parts are in the ratio 5:3, find the number and the two parts.
- 18) Length of a rectangle exceeds its breadth by 3m. If the perimeter of the rectangle is 90m, find the length and breadth of the rectangle.
- 19) The price of 2 tables and 3 chairs is Rs. 340. If a table costs Rs. 20 more than a chair, find the cost of each.
- 20) Find a number which when multiplied by 8 and then reduced by 11 is equal to 53.
- 21) Three prizes are to be distributed in a quiz contest. The value of the second prize is five-sixth of the value of the first prize and the value of the third prize is four-fifths of the second prize. If the total value of three prizes is Rs. 450, find the value of each prize.
- 22) Divide Rs. 1380 among Ahmed, John and Babita so that the amount Ahmed has is 5 times as much as Babita's share and is 3 times as much as John's share.
- 23) One of the angles of a triangle is equal to the sum of the other two angles. If the ratio of the other two angles is 4:5, find the angles of the triangle.
- 24) A field can be ploughed in 14 days. If 20 hectares of land is ploughed more daily, the work will be finished in 10 days. Find the area of the land which can be ploughed daily.
- 25) The sum of two numbers is 4000. If 15% of one is 25% of the other. Find the numbers.
- 26) A lady went for shopping and spent half of what she had on buying hankies and gave a rupee to a beggar waiting outside the shop. She spent half of what was left on lunch followed up with a two rupee tip. She spent half of the remaining amount on a book and three rupees on bus fare. When she reached home, she had exactly one rupee left. How much money did she start with.

MAKE A PROJECT ON ANY ONE OF THE FOLLOWING:

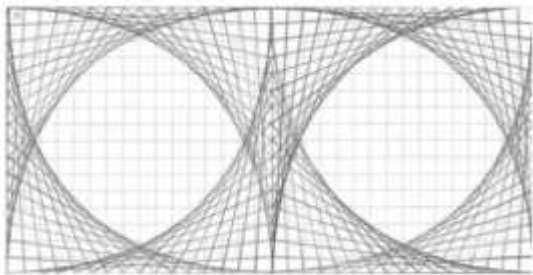
- a) Make a cutout of different regular polygons and make different geometric patterns with them.
- b) Make flowers using different polygonal shapes.

c) Make a brain showing the properties of Rational Numbers

d) Find the perimeter and area of 5 different objects from your home. (Activity of Mensuration)

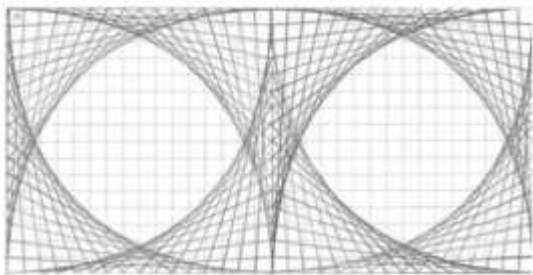
e) Make models of shape of cylinder, pyramid (square pyramid and pentagonal pyramid), prism (rectangular prism and hexagonal prism), cone, cube and cuboids. (height of each model should not be less than 5 cm) Write the properties and uses of each. And state the formulae to calculate lateral surface area, total surface area and volume of cube, cuboid, cylinder and cone.

f) 'String Art' or 'Line Design' is an art in which a series of straight lines is arranged in a systematic way such that they create the appearance of a smooth curve forming what is called an 'envelope' in mathematics. Create your own line design on a cardboard /thermacol sheet and pins using different coloured threads. An example is shown below:



USE 1 SCRAP BOOK ONLY FOR MATHS HOLIDAYS HOMEWORK

1. Make a project on geometry in real life(10 pages)
2. Make atleast 5 mathematical crossword puzzles with clues in your scrap book.
3. Paste cuttings of the newspaper weather forecast for a week in your scrap book.
4. Find the maximum temperature and Minimum temperature for the week and answer the following questions: i) Which was the hottest Day? ii) On how many days was the temperature below 40 c? iii) On how many days was the temperature above 40 c? iv) What is the average maximum temperature during the week? v) Explain how can we use this data in future
5. Make a PPT on the topic 'RATIONAL NUMBERS' of atleast 7 slide
6. 'String Art' or 'Line Design' is an art in which a series of straight lines is arranged in a systematic way such that they create the appearance of a smooth curve forming what is called an 'envelope' in mathematics. Create your own line design on an A3 size sheet using different coloured pens. An example is shown below:



7) Make a Chart

- e) showing a technique of Vedic Mathematics with an example.
 - f) Showing different types of quadrilateral and their properties.
 - g) Showing different polygons, the number of diagonals and the sum of all angles.
-

FRENCH

1. 20 fois seulement, écrivez une page dans votre cahier avec la date , le jour et le temps.
(Write 20 pages (writing) with date, day and time (in French language) in your note-book).
 2. Soulignez 3 verbes de chaque groupes (1^{er} ; 2^e ; 3^e) dans votre livre et conjuguez tous les 9 verbes au présent de l'indicatif.
(Underline 3 verbs of each group: 1st ; 2nd and 3rd in your book and conjugate all the 9 verbs in present tense)
 3. Make a project / chart on the topics discussed in class.
-

COMPUTER

Design thinking is a set of tools, methods, and processes by which we develop new answers for challenges, big and small. Through applying design thinking to challenges, we learn to define problems, understand needs and constraints, brainstorm innovative solutions, and seek and incorporate feedback about our ideas in order to continually make them better. The more we apply design thinking to the challenges we see, the deeper we strengthen the belief in our ability to generate creative ideas and make positive change happen in the world. Following this idea let us do something new using the various statements of Qbasic we have already done in Class VI and VII.

You are given various types of projects and you have to submit any one of them

a) A simple Project to create a calculator in Qbasic

(Hint : You have to input any two numbers and perform the mathematical calculation like addition, subtraction, multiplication and division depending upon the user's choice like:

- 1) Addition ("1" for addition)
 - 2) Subtraction ("2" for subtraction)
 - 3) Multiplication ("3" for Multiplication)
 - 4) Division ("4" for Division)
- also we have to use **If-Then-Else statement**)

b) Design a project for wage calculation of an employee with the following inputs

-> Employee name, Date of Birth, Hours worked, Hourly rate
calculate the total paid = Hours worked* hourly rate

The output screen should look like :

Employee name	DOB	Total Paid
Amit kumar	20/12/2000	10500

c) Design a project in Libreoffice Base (Create a table "STUDENT DETAILS" containing appropriate 6 columns and 10 records, make one key as a primary key) insert the records using the FORM and display the summarised information using REPORT.

* Submit the project(a and b) in the form of CD or can mail it to

Section VIII -A and VIII -B sapjcomputer@gmail.com

Section VIII -C najcomputer@gmail.com

and submit the project(c) in the form of FILE/FOLDER

HINDI

ग्रीष्मकाश गृह-कार्य
कक्षा - आठवीं विषय - हिंदी

- प्र०1. कोई दस गद्यांश श्रुतलेख के रूप में लिखिए।
- प्र०2. "मानवीय मूल्य व्यक्तित्व को सुदृढ़ बनाते हैं।" 'लाख की चीड़ियाँ' पाठ के आधार पर 100 शब्दों में एक अनुच्छेद लिखिए।
- प्र०3. लाख की वस्तुओं का निर्माण भारत के किन-किन राज्यों में होता है? लाख से चीड़ियों के अतिरिक्त क्या-क्या चीजें बनाती हैं? लिखिए।
- प्र०4. 'प्रकृति' अथवा 'वसंत ऋतु' का चित्र बनाते हुए, सुंदर कविता लिखकर चार्ट तैयार कीजिए।
- प्र०5. 'मशीनी युग में आए परिवर्तन' विषय पर लेख लिखकर, चित्र बनाते हुए सुंदर चार्ट तैयार कीजिए।

ग्रीष्ममासकाशकालीन गृहकार्य
कक्षा - आठवीं, विषय - संस्कृत

1. किसी एक को आधार बनाकर सुंदर चार्ट बनाओ — (पाठ्यपुस्तक से)

1. अमृता वाणी — पृष्ठ 15-16

2. प्रेरणाप्रदाः श्लोकाः — पृष्ठ 39

3. कण्ठहाराः श्लोकाः — पृष्ठ 68

4. महदस्ति मम भारतम् — पृष्ठ 76

II 'मातृभक्तः श्वेतगजः' कहानी को संक्षेप में संस्कृत में लिखो।