HOLIDAY HOMEWORK OF CLASS – 9TH

From principal desk

Dear Parents,

Summer vacation is a welcome break.........from schedule, rules and regulations of the school. Freedom brings more responsibility, so keeping this in mind we have planned an array of activities to keep our children engaged and also help them in channelizing their energies positively.

Happy Holidays" Have fun with your little one."

If there is one particular message this summer, it is this: Take the time to show children how wonderful, unique and special they are. Be there for them. While we would like our children to enjoy their summer break, we thought we would share with you a few activities which could be incorporated in their routine, so that they learn while they play. Do participate and relive your childhood with them.

How independent can I become?

- ➤ Make your child more independent by teaching him or her various activities like
- ➤ Buttoning and unbuttoning the shirt.
- ➤ Laying the table.
- ➤ Folding mats and clothes.
- ➤ Arranging their toy shelf.
- ➤ Learning to wear shoes and socks.
- ➤ Practice tying your shoes laces.
- ➤ Learning how to zip the school bag and uniform.
- ➤ Sorting and pairing household items.

Good Manners and Good Habits

- ➤ Good manners and good habits are lifelong assets and it should be practiced until they become a habit. Revise the four magical words Please, Sorry thank you and excuse me which we have learnt as the basis of good manners.
- ➤ Use of magic words like excuse me, sorry, thanks, please.
- ➤ When asking for something, say "Please"
- ➤ When receiving something say, "Thank you"
- ➤ Do not interrupt grown-ups who are speaking with each other unless there is an emergence
- ➤ If you need to get somebody's attention right away, the phrase "Excuse me" is the politest way for you to enter the conversation.
- ➤ When you have any doubt about doing something, ask permission first.

- When you have spent time at your friend's house remember to thank his or her parents for having you over and for the good time you had. Books are the chief medium of imparting knowledge and education to the kids. The book at the window to their perfect understanding of different topics.
- To enhance their knowledge and reading skills make your child learn anyone English short story (8-10 lines) and prepare them for the narration of story,
- To make the story more interesting you can make your own puppets with old bottles, cartoons, ribbons buttons etc. Make a video on it.)

English

1. Prepare a chart on determiners topic
2. Make assignment on - the fun they had or the lost child
3. Interchange the sentences
    i. He writes an application. (simple past)
    ii. Did you help him yesterday? (Simple future)
    iii. He has shut the window. (past perfect tense)
    iv. When do they teach you? (Passive voice)
    v. The fish swam safely away. (Past continuous)
4. Complete 4 exercises given on your practice grammar book. Topics-
    i. Reordering of the sentences
    ii. Possessive determiners
    iii. Interrogative determiners
    iv. Demonstrative determiners
    v. Quantifier determiners
5. Write a summary on 'The Fun they Had'

हिंदी

1. मुंशी प्रेमचंद का जीवन परिचय लिखकर उनका साहित्य में योगदान प्रोजेक्ट फाइल में लिखेंगे।
2. कबीर दास का जीवन परिचय रचनाएं एवं साहित्य में योगदान लिखकर उनकी पांच सखियां अर्थ सहित प्रोजेक्ट फाइल में लिखेंगे।
3. दो अनौपचारिक पत्र और दो औपचारिक पत्र मानव जीवन में आने वाली समस्याओं के समाधान में लिखेंगे।
4. प्रकृति का संरक्षण ही मानव जीवन की रक्षा करता है विषय पर 100 शब्दों में अनुच्छेद लिखेंगे।
5. उपसर्ग प्रत्यय समास अलंकार अर्थ के आधार पर वाक्य भेद उदाहरण समेत लिखकर याद करेंगे।
6. 'एकता की शक्ति से सब संभव' है विषय को स्पष्ट करने वाली एक कहानी अपनी भाषा में लिखकर याद कीजिए।
7. अपने कुल की तीन पीढ़ियोंका वंश वृक्ष बनाकर उनके नाम लिखिए।

Maths

1. Make a chart on the Topic: "Polynomials and its type."
2. Solve the following sums in Maths Homework notebook.
    i. Define the following with one example

         a.   Linear Polynomial
         b.   Quadratic Polynomial
         c.   Cubic Polynomial
         d.   Biquadratic Polynomial
         e.   Monomial
         f.   Binomial
         g.   Trinomial
         h.   Zero Polynomial

ii. Find the zero of the polynomial
    a. $p(x) = 5 - 4x$
    b. $q(x) = 3x + 2$

iii. If $f(t) = 4t^2 - 3t + 6$, find
    a. $f(4)$
    b. $f(-5)$

iv. If 2 and 0 are the zeros of the polynomial $f(x) = 2x^3 - 5x^2 + ax + b$ then find the value of a and b

v. Find the remainder when the polynomial $p(x) = x^4 + 2x^3 - 3x^2 + x - 1$ is divided by $g(x) = x - 2$.

vi. Bhai actual division find the question and remainder when $(x^4 + 1)$ is divided by $(x - 1)$

vii. On the plane of a graph paper draw xox' and YOY' as coordinate axis and plot each of the following points
    a.   A (-3, -2)
    b.   B (0, -2)
    c.   C (4, -6)
    d.   D (-5, 3)

viii. The three vertices of a triangle ABC are A (1, 4) B(-2, 2) and C(3, 2). Plot these points on a graph paper and calculate the area of triangle ABC.

ix. Factorise:
    a. $(2x - 3)^2 - 8x + 12$
    b. $X^4 - 625$

x. Use factor theorem to prove that $(x + a)$ is a factor of $(x^n + a^n)$ for any odd positive integer n.
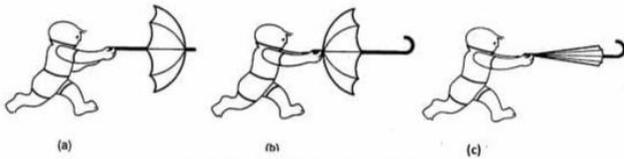
Physics

1. Write all the formula used in the chapter motion.
2. Prepare the derivation of equation of motion by graphical method.
3. Solve anything three numericals based on velocity displacement or speed time graph.
4. Solve any five numerical based on equation of motion with constant acceleration.

Chemistry

1. Select any five brands each of aerated soft drinks and fruit juices.
    i.   Find out the nutrient content, price, advantage and disadvantage of each one of them.
    ii.   Conclude with reasons, what kind of beverage should be used.

iii.   Present the information in a folder with illustration, pictures, photographs, etc.

2. Take a toy car with a spring -key system. Place a smooth plastic card (a good quality greeting card will do) on the Floor. Wind up the car and place it on the plastic card. Watch the card and record your observations.

3. Take an umbrella and go to field.
   i.   Open the umbrella and keep it in front of you (Fig a).
   ii.   Run as fast as you can. Now turn the umbrella round and hold it as shown in (figb).
   iii.   Run as fast as you can. Now close the umbrella and keep it infront of you (fig c).
   iv.   Run as fast as you can.
      a. In which case did you run the fastest?
      b. In which case did you run the slowest?
      c. Think of the reasons and explain them to your friend.

(Hint: the force exerted by air plays an important role)

Biology

1. Prepare a plant cell/animal cell on a thermocol sheet and label it properly.
2. Draw a labelled diagram of A. Mitochondria B. Nucleus C. Chloroplast D. Endoplasmic reticulum and write their functions and role on A4 size sheet

Social

1. Read and write 20 news related to Indian current affairs from newspaper.
2. Prepare a project file on disaster management it must be off at least 20 pages.
3. Colour and name the states of India on political map of India and paste it on your Geography notebook.

IT

1. Prepare a project file on environment protection and conservation Use the information of chapter 17 of part A for help.
2. Learn full forms and basic shortcut keys to perform general operations.

Note -Make a card for your father and give it to him, on Father's Day.

Happy Holidays!!!!!!