G D Goenka International school,Rohtak

Summer Holiday Homework

Grade-ix

Science (Physics)

1. Make a working model using concep

English

Design a English magazine which should have the fallowing requirements:

- An attractive cover page
- Name of magazine
- A short story
- Jokes
- English Riddles
- Experience during excursion
- Design an advertisement

Read and complete the exercises of Unit-1 of the main course book and revise grammar.

Hindi

1.व्याकरण पुस्तक में दिए गए अपठित गद्यान्श (Pg. 2-6) एवं काव्यांश

(Pg. 30-34) पुस्तक में हल करें|

2.आपके विद्यालय में हिन्दी शब्दकोष नहीं है| अतः प्रचार्या से हिन्दी शब्दकोष मंगाने का अनुरोध करते हुए प्रार्थना पत्र लिखिए|

3.किसी भी एक दंतमंजन (टूथपेस्ट) के गुणों का उल्लेख करते हुए एक विजापन बनाए|

4.किसी भी एक दिन के समाचार - पत्र के किसी अंश को कॉपी में चस्पा(paste) करें एवं उस अंश में से सामासिक पद यानी समस्तपद चुनकर अपनी पुस्तिका में लिखिए| फिर उनके भेदो के नाम लिखिए|

ts of science.

OR

Make a PPT on Ch. 9 (Application of laws of motion in our day to day life along with related pictures)

2. Write all formulas and Physical quantities along with SI unit in proper tabular form from Ch. 8 and 9. (on A3 sheet or chart)

(Biology)

1. Make the PPT of lesson 1 (Cell).

2. Make a chart related to cell.

3. Revise the lesson completely.

4. Note books must be completed neatly.

(Chemistry)

1. Make the PPT of lesson Matter in our surrounding.

2. Make chart of atomic number, electronic configuration and valency of elements (1-20).

3. Revise the complete lesson.

Social studies

1. Draw the France Map and identify the various important cities and write their importance. (on A3 sheet)
2. Describe the legacy of the French revolution for the people of world during 18^{th} – 19^{th} Century. (on A4 sheet)

Mathematics

- ✓ **Prepare a chart on any one of the given topic about any 2 Indian mathematicians and their inventions or working model of any SA1 syllabus topic.**

- ✓ **Do all given questions on A-4 size white paper**

s.

1. If x+y+z = 0, then $x^3 + y^3 + z^3$ is

   (a) xyz (b) 2xyz (c) 3xyz (d) 0

2. The value of $(x-a)^3 + (x-b)^3 + (x-c)^3 - 3(x-a)(x-b)(x-c)$ when a + b + c= 3x, is

   (a) 3 (b) 2 (c) 1 (d) 0

3 The degree of constant function is

   (a) 1 (b) 2 (c) 3 (d) 0

4 Factorise $27x^3 + y^3 + z^3 + 9xyz$

5. Evaluate 105 + 95

6 Using remainder theorem factorise

   $x^3 + 3x^2 + x + 3$

7. If $y^3 + ay^2 + by + 6$ is divisible by y – 2 and leaves remainder 3 when divided by y – 3, find the values of a and b.

8. Factorise $x^6 - 64$.

9. The volume of a cuboid is given by the algebraic expression $ky^2-6ky+8k$. Find the possible expressions for the dimensions of the cuboid.

10. Which of the following expression is a monomial

    (a) 3 + x (b) $4x^3$

    (c) $x^6 + 2x^2 + 2$ (d) None of these

11. A linear polynomial

    (a) May have one zero (b) has one and only one zero

    (c) May have two zero (d) May have more than one zero

12. If $P(x) = x^3 - 1$, then the value of P(1) + P(-1) is

    (a) 0 (b) 1

    (c) 2 (d) - 2

13. when polynomial $x^3 + 3x^2 + 3x + 1$ is divided by x + 1, the remainder is

    (a) 1 (b) 0

    (c) 2 (d) – 6

14. Write 5 expressions which are not polynomials. Justify your answers.

15. Give examples of the polynomials (a) Cubic and binomial (b) Cubic and monomial (c)Quadratic and trinomial (d) Quadratic and monomial (e) Linear and binomial (f)Linear and monomial

16. Justify the following statements with examples:

(a) We can have a trinomial having degree 7.

(b)The degree of a binomial cannot be more than two.

(c)There is only one term of degree one in a monomial.

(d)A cubic polynomial always has degree three.

17. Find the zeroes of the following polynomials:

(a) P(x) = 3x – 5 (b) P(x) = 2x + 7

Check whether –2 and 2 are the zeroes of the polynomial.

18. Evaluate $x^4 - 16$.

19. Give examples to justify the following statements:

(a) A zero of a polynomial need not be 0.

(b) 0 may be a zero of a polynomial.

(c) Every linear polynomial has one and only one zero.

(d) A polynomial can have more than one zeroed.

English Speaking

1. **100 newspaper** words with Example sentences. Use them in your general conversation.

2. A simple conversation between two newspaper readers on a live channel about…

a. Natural Disasters
b. Wild life conservation.
c. viral infection human body