VAISH MODEL SR. SEC. SCHOOL, BHIWANI

Summer Vacation Home Assignment

Session : 2024-25

Class : VII

English

1. Do Comprehension Passage 1,2 given in English Grammar Book. (Page No 172, 173)
2. Write a paragraph on topic
   "A street Hawker"
   "Attending School is a fun"
3. Write and learn the rules of "The Present Tense"
4. Learn Chapter = 1,2 (Text Book)
   Poem = 1, 2
   (W/M, D/W, Q/A)

Hindi

➢ **हिन्दी पाठ्य पुस्तक वसंत भाग–2 :**

पाठ–1: हम पंछी उन्मुक्त गगन के
पाठ–2: हिमालय की बेटियाँ
पाठ–3: कठपुतली
पाठ–4: मिठाईवाला

➢ **महाभारत**

पाठ– 1 से 10 तक (प्रश्न संख्या 1 से 21 तक)

➢ **हिन्दी व्याकरण :**

पाठ–4: (शब्द विचार)
पाठ–11 (उपसर्ग)
पाठ–12 (प्रत्यय)
पाठ–14 (संज्ञा)
पाठ–15 (लिंग)
पाठ–16 (वचन)
पाठ–27 (मुहावरे :– 1 से 14 तक)

उपर्युक्त पाठों को याद कीजिए व कॉपी पूरी कीजिए।

अनुच्छेद : 1. राष्ट्रीय पर्व 2. प्रिय ऋतु

पत्र : 1. अस्वस्थ होने के कारण अंतर्विद्यालयीय क्रिकेट मैच न खेल पाने के लिए मित्र को सांत्वना पत्र

2.नेशनल बुक ट्रस्ट से वी.पी.पी. द्वारा पुस्तकें मँगवाने हेतु पत्र

उपर्युक्त अनुच्छेदों व पत्रों को अभ्यास–पुस्तिका में लिखिए व याद कीजिए।

➢ **वसंत** :– पाठ 1 से 4 में से प्रत्येक से 10–10 कठिन शब्द छाँटकर लिखिए।

Sanskrit

➢ **रुचिरा द्वितीयो भागः**

प्रथमः पाठः – सुभाषितानि

द्वितीयः पाठः – दुर्बुद्धिः विनश्यति

तृतीयः पाठः– स्वावलम्बनम्

➢ **संस्कृत व्याकरण :**

पाठ–2 : उच्चारण–स्थानानि

पाठ– : सन्धि–प्रकरणम्

उपर्युक्त पाठों को याद कीजिए व जिनका लेखनकार्य पूरा नहीं है, वे अपना लेखन कार्य पूरा कीजिए।

➢ **शब्दरूप** : नर, रमा, मित्र, कवि

➢ **धातुरूप** : गम्, चल, लिख् खाद् (लट्, लृट व लङ् लकार)

उपर्युक्त शब्दरूप और धातुरूपों को संस्कृत की कॉपी में लिखिए व याद कीजिए।

गीता के कोई दस श्लोक या सुभाषितानि के दस श्लोक याद कीजिए और A4 सीट पर लिखिए।

Mathematics

1. **Prepare a chart on the following topic (Any One)**
   - (i) Laws of exponents
   - (ii) Integers
   - (iii) Types of Triangles
   - (iv) Rational number
2. **Revise the following chapters from NCERT Mathematics Book :**

   Ch-1 : Integers

   Ch-11 : Powers and Exponents
3. **Points to be noted**
   - (i) Writing should be neat and clean.
   - (ii) Do the given assignment in separate note-book.
4. **Complete your fair Note book.**

Science

1) Complete your fair notebook upto chapter – 3.
2) Complete the practical notebook/Science lab manual.
3) Learn question-answers and exercises of chapter 1, 2 and 3.
4) Prepare any one model of your choice from the following given topics : -
   (a) Clinical thermometer
   (b) Laboratory thermometer
   (c) Digital thermometer

Note :- You can use cardboard, thermocol, clay etc. for making these models.

5) Prepare a laminated name tag of plant assigned as per Roll No. mentioned :-
   (Use A5 size drawing sheet)

Plant's name	Scientific Name	Roll No .
(i) Kaner	Cascabela thevetia	1-5
(ii) Palm	Arecaceae	5-10
(iii) Madhumalti	Combretum indicum	10-15
(iv) Arrowhead	Syngonium podophyllum	15-20
(v) Euphorbia	Euphorbia antiquorum	20-25
(vi) Norfolk Island pine	Araucaria heterophylla	25-30
(vii) Flamewheel	Stencocarpus sinuatus	30-35
(viii) Money plant	Epipremnum aureum	35-40

6) Make a chart showing mind map on any one topic given in photocopy attached with homework.

Social Science

(1) Learn the following Lessons:

Geography : Chapter-2 : Inside our earth

Civics : Chapter-2 : Role of Government in Health

(2) Make a Project on any one of the topic of your choice :-

'Different Layers of the Earth'

OR

'Rock- Cycle

OR

Different methods of 'Water Conservation'

Note: Prepare the project on Full Chart, Use colours and write at least 10-10 lines on the topic.

(3) Cover your Books & Notebooks, Complete Pending (C.W/H.W) Written work.

Computer (SUPW)

1. Write any 10 functions used in Microsoft office Excel.
2. Define Artificial Intelligence (AI) and its need?
3. Write 10 keyboard shortcut commands.
4. Prepare a chart on any one topic :
   (a) Number System
   (b) Internet Safety
   (c) Type of Artificial Intelligence (AI)
5. Complete your Notebook syllabus covered upto May.

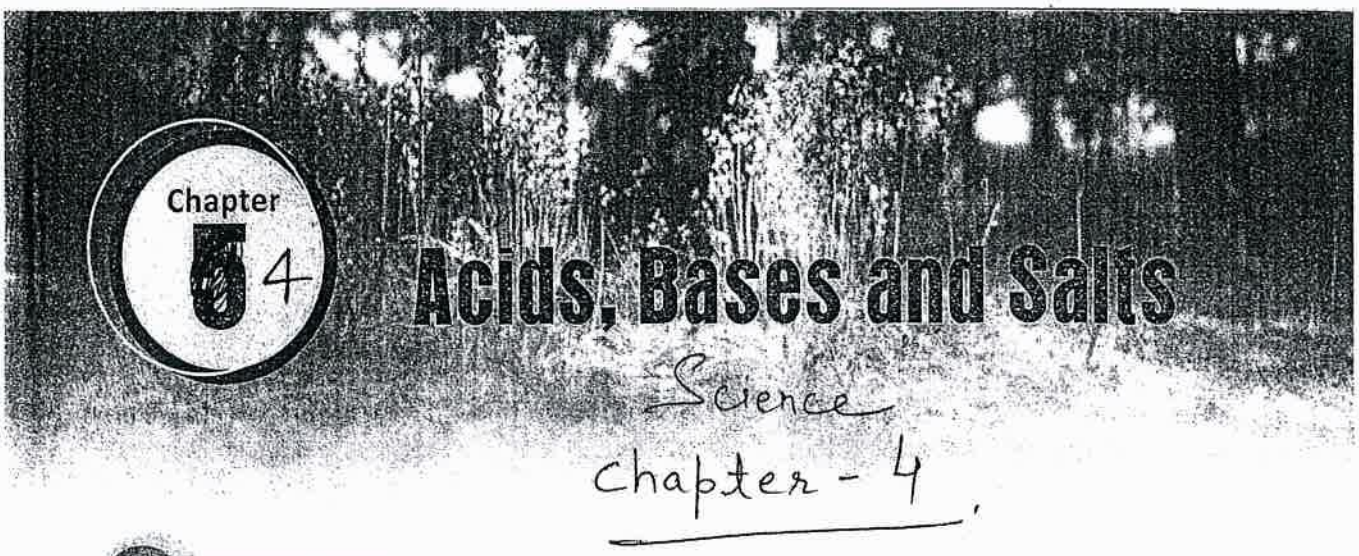
(Do all holiday homework in computer's fair notebook)

Art (SUPW)

Poster : Make a Poster on any one of the given topics on A3 size sheet

- Save Environment
- Save Water
- Save Tree
- Road Safety

Shade the drawing given in your Drawing Book on Page No. – 10, 13, 21, 27

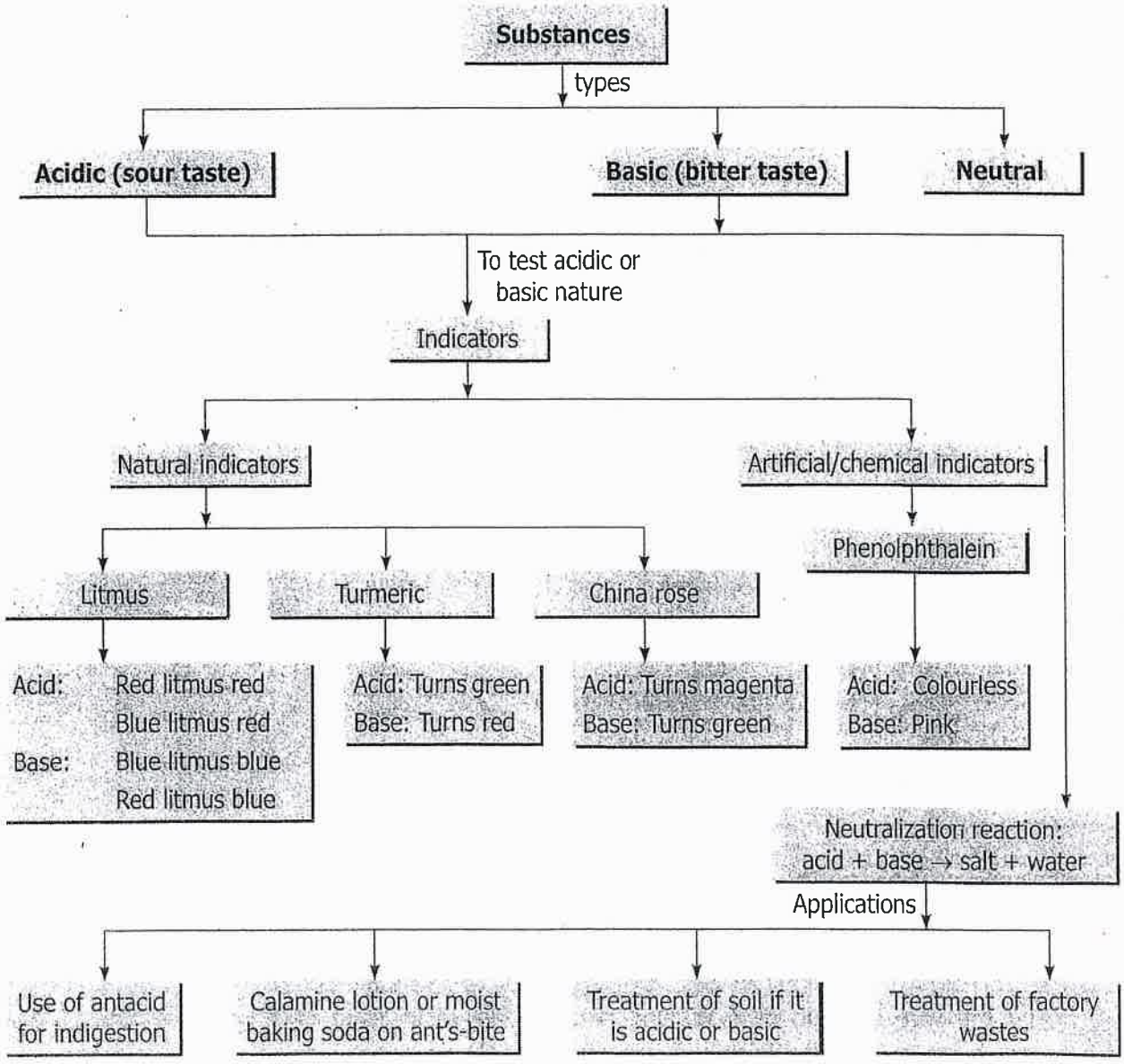


Chapter 4

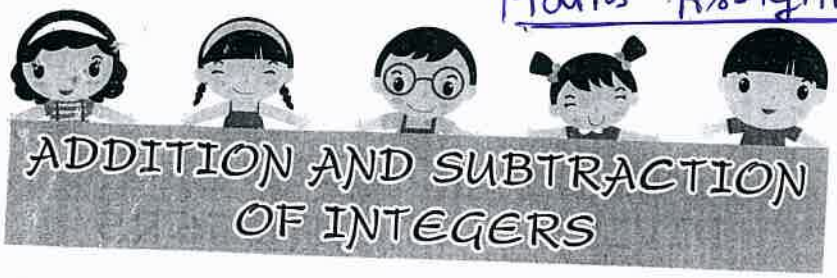
Acids, Bases and Salts

Science
Chapter - 4

Chapter at a Glance



Maths Assignment - Class 7th.



ADDITION AND SUBTRACTION OF INTEGERS

1 WORKSHEET

Date: .....

A. Tick (✔) the correct option.

1. On subtracting (–4) from 0, we get
   (a) –4 ☐ (b) 4 ☐ (c) 0 ☐ (d) none of these ☐
2. The additive inverse of –8 is
   (a) 8 ☐ (b) –8 ☐ (c) 0 ☐ (d) 1 ☐
3. The value of $|-2| + |-3| + |-6|$ is
   (a) –7 ☐ (b) –1 ☐ (c) 5 ☐ (d) 11 ☐

B. Fill in the boxes using the sign of >, < or =.

1. (–8) + (–4) ☐ (–8) – (–4)
2. (–3) + 7 –(19) ☐ 15 – 8 + (–9)
3. 23 – 41 + 11 ☐ 23 – 41 –11

C. State whether the following statements are True or False.

1. Zero is greater than all negative integers. ☐
2. –15 is greater than –6. ☐
3. The sum of a positive integer and a negative integer is always a positive integer. ☐
4. Additive inverse of –17 is 17. ☐
5. Associative property holds for addition and subtraction of integers. ☐

D. Simplify:

1. $|15| + |-7|$ ☐
2. $|-24| - |-46|$ ☐

E. Find the sum:

1. (–13) + (–22) ☐
2. (–300) + 304 ☐
3. 143 + (–187) + 250 ☐
4. (–240) + (–150) + 630 ☐

F. Subtract:

1. –12 from –15 ☐
2. 45 from –51 ☐
3. 24 from –38 ☐
4. –58 from 130 ☐

G. Fill in the blanks to make the following statement true and name the property used.

1. [(–4) + 2 – (–5)] – [(–4) –2 + (–6)] is an _____.
2. (–8) + (–9) = (–9) + _____.
3. (–23) + _____ = –23.
4. 34 + _____ = 0.
5. [(–5) + (–3)] + (–2) = (–5) + [(–3) + _____].

Teacher's Signature : .....

WORKSHEET 2

MULTIPLICATION AND DIVISION OF INTEGERS

Date: .....

A. Tick (✔) the correct option.

1. In integers, 1 is the identity for
   (a) multiplication ☐ (b) division ☐ (c) addition ☐ (d) subtraction ☐
2. The product of two integers is 117. If one integer is –9, then the other one is
   (a) –13 ☐ (b) 13 ☐ (c) –17 ☐ (d) 17 ☐
3. $0 \div (-8) =$
   (a) –8 ☐ (b) 8 ☐ (c) 0 ☐ (d) not defined ☐
4. $(-10) \div 0 =$
   (a) –10 ☐ (b) 10 ☐ (c) 0 ☐ (d) not defined ☐

B. Fill in the blanks.

1. $3 \times (-1) =$ _____.
2. $(-15) \times (-10) = (-10) \times$ _____.
3. $[(-3) \times (-2)] \times 5 = (-3) \times [$_____ $\times$ _____$]$.
4. $369 \div$ _____ $= 369$.
5. _____ $\div 48 = -1$.
6. _____ $\div 4 = -3$.

C. State whether the following statements are True or False.

1. $(-1) \times (-1) \times (-1) \times (-1) \times (-1) = -1$. ☐
2. Every integer multiplied by multiplicative identity gives the same integer. ☐
3. Multiplicative inverse of an integer is always an integer. ☐
4. $0 \div (-12) = 0$. ☐
5. $(-5) \div (-5) = -1$. ☐

D. Multiply:

1. $(-21) \times (-30)$ ☐
2. $(-15) \times 0 \times (-18)$ ☐
3. $(-17) \times 0 \times (-62)$ ☐
4. $(-18) \times (-5) \times (-4)$ ☐

E. Find the product using suitable properties:

1. $26 \times (-48) + (-48) \times (-36)$ ☐
2. -41×102 ☐
3. $7 \times (50 - 2)$ ☐
4. $(-57) \times (-19) + 57$ ☐

F. Evaluate:

1. $(-31) \div [(-30) + (-1)]$ ☐
2. $[(-36) \div 12] \div (-3)$ ☐
3. $[(-8) + 5] \div [12 + (-15)]$ ☐
4. $25 - 12 \div 6 - 3 \times 8$ ☐

G. Simplify each of the following.

1. $15 - (-3)\{4 - \overline{7 - 3}\} \div 3[\{5 + (-3) \times (-6)\}]$ ☐
2. $36 - [18 - \{14 - (15 - 4 \div 2 \times 2)\}]$ ☐

Teacher's Signature : .....

LAWS OF EXPONENTS

3 WORKSHEET

Date: .....

A. Tick (✔) the correct option.

1. The value of $\left(\frac{-1}{4}\right)^{-2} + \left(\frac{-1}{5}\right)^{-2} - \left(\frac{-1}{3}\right)^{-2}$ is

(a) 32 ☐ (b) 40 ☐ (c) 41 ☐ (d) 50 ☐

2. If $\left(\frac{3}{7}\right)^{14} \times \left(\frac{3}{7}\right)^{-8} = \left(\frac{3}{7}\right)^{8x}$, then x =

(a) $\frac{3}{4}$ ☐ (b) $\frac{-4}{3}$ ☐ (c) 2 ☐ (d) $\frac{1}{2}$ ☐

B. Fill in the blanks.

1. If $(4^3)^2 = 2^x$, then x = _____.

2. The value of $\left[\left\{\left(\frac{1}{2}\right)^2\right\}^{-2}\right]^{-2}$ is _____.

3. $\left(\frac{-3}{4}\right)^{-2}$ is equal to _____.

4. $9^8 \div 9^4 = (3)^{\_\_}$.

C. State whether the following statements are True or False.

1. $\frac{x^a}{x^b} \times \frac{x^b}{x^c} \times \frac{x^c}{x^b} = x^{a-b}$ ☐

2. Reciprocal of $\left(\frac{-3}{7}\right)^0$ is 1. ☐

3. $a^m + b^m = (a + b)^m$. ☐

D. Using laws of exponents, simplify and write the answer in exponential form.

1. $3^2 \times 3^4 \times 3^8$ _____ 2. $(5^2)^3 \div 5^3$ _____

3. $2^3 \times 2^2 \times 5^5$ _____ 4. $\frac{72^3}{180^3}$ _____

E. Simplify and express each of the following in exponential form.

1. $[(2^2)^3 \times 3^6] \times 5^6$ _____ 2. $\frac{4^5 \times a^8 b^3}{4^5 \times a^5 b^2}$ _____

F. Simplify:

1. $\frac{2 \times 3^4 \times 2^5}{9 \times 4^2}$ _____ 2. $\frac{3^5 \times 10^5 \times 25 \times a^7 b^3}{5^7 \times 6^5 \times a^2 b}$ _____

G. If $\frac{6^2 \times 5^4 \times (-1)^{78}}{8^0 \times 3^2 \times 5^2 \times 10^0} = 10^x$, find the value of x.

Teacher's Signature : .....

WORKSHEET 4

EXPONENTS OR POWERS

Date: .....

A. Tick (✔) the correct option.

1. If $2^4 + 3^2 = 5^x$, then x =
   (a) 1 ☐ (b) 2 ☐ (c) 3 ☐ (d) 4 ☐
2. $(6^{-1} - 8^{-1})^{-1}$ is equal to
   (a) 6 ☐ (b) 8 ☐ (c) 12 ☐ (d) 24 ☐

B. Fill in the blanks.

1. $(-5)^3$ = _____.
2. $(-1) \times (-2) \times (-2) \times (-3)$ = _____.
3. $(2 \times 10^2) \times (3 \times 10^3) = 6 \times 10^{\_\_}$.

C. State whether the following statements are True or False.

1. If $a^0 = b^0$, then $a = b$. ☐
2. The value of $(4^0 - 2^1) \times 5^2$ is 25. ☐
3. $(-4)^{23}$ will be a positive quantity. ☐

D. Match the columns:

1. $(4^3 \times 3^2 \times 2^1 \times 1^0) \times 0^2$	(a) 1
2. $4^0 + 3^0 + 2^0 + 1^0$	(b) –1
3. $(-1)^{57}$	(c) 0
4. $(-4)^0$	(d) 4

E. Express the following in exponential form.

1. $x \times x \times x \times y \times y \times y \times y \times z$ ☐
2. 1000 ☐
3. $5 \times 5 \times 7 \times 7 \times 7$ ☐
4. 729 ☐

F. Identify the greater number in each of the following:

1. 4^3 or 3^4 ☐
2. $(-4)^3$ or $(-3)^2$ ☐

G. Write the following numbers in descending order:

$2^4, 3^4, 1^{10}, 5^2, 4^4$ _____

H. Compare the following numbers: (using > or <)

1. 5×10^{11} ☐ 2×10^{13}
2. 2.7×10^{12} ☐ 1.5×10^8

I. Simplify:

1. $7^3 \times 2^2$ ☐
2. $(-3)^2 \times (-5)^2$ ☐

Teacher's Signature : .....

WORKSHEET 5

SCIENTIFIC NOTATION OF A NUMBER

Date: .....

A. Tick (✔) the correct option.

1. The number 0.036 can be expressed in the scientific notation as

   (a) 36×10^{-4} ☐ (b) 3.6×10^{-3} ☐ (c) 3.6×10^{-2} ☐ (d) none of these ☐

2. 567000 can be expressed in the scientific notation as

   (a) 5.67×10^{4} ☐ (b) 5.67×10^{-4} ☐ (c) 5.67×10^{-5} ☐ (d) 5.67×10^{5} ☐

B. Fill in the blanks:

1. $2 \times 100 + 5 \times 10 + 3 \times 1 =$ _____
2. $7 \times 100 + 0 \times 10 + 5 \times 1 =$ _____
3. $2850000 = 2.85 \times 10^{\_\_}$
4. $53.25 \times 10^{3} = 5.325 \times 10^{\_\_}$
5. $0.0517 \times 10^{6} = 5.17 \times 10^{\_\_}$

C. Write the following numbers in expanded form:

1. 47561 _____
2. 3006194 _____

D. Find the number from each of the following expanded forms:

1. $1 \times 10^{5} + 0 \times 10^{4} + 4 \times 10^{3} + 2 \times 10^{2} + 7 \times 10^{1} + 8 \times 10^{0}$ _____
2. $4 \times 10^{5} + 5 \times 10^{3} + 3 \times 10^{2} + 2 \times 10^{0}$ _____

E. Express the following numbers in standard form:

1. 70 00 000 _____
2. 3 908.78 _____
3. 300 000 000 000 000 000 000 _____
4. 5985.3 _____

F. Express the numbers appearing in the following statements in standard form:

1. The distance between the Sun and the Saturn is 1 433 500 000 000 m.

   _____

2. The mass of the Uranus is 86 800 000 000 000 000 000 000 000 kg.

   _____

3. Diameter of the Sun is 1 400 000 000 m.

   _____

Teacher's Signature : .....