

Name _____

Elements, Compounds & Mixtures Worksheet

Part 1: Read the following information on elements, compounds and mixtures. Fill in the blanks using the word bank below.

heterogeneous
homogeneous
atom

atoms
elements
compounds

Word Bank

Periodic Table
chemically
cannot

cannot

Elements:

- A pure substance containing only one kind of _____.
- An element is always uniform all the way through (homogeneous).
- An element _____ be separated into simpler materials (except during nuclear reactions).
- Over 100 existing elements are listed and classified on the _____.

Compounds:

- A pure substance containing two or more kinds of _____.
- The atoms are _____ combined in some way. Often times (but not always) they come together to form groups of atoms called molecules.
- A compound is always homogeneous (uniform).
- Compounds _____ be separated by physical means. Separating a compound requires a chemical reaction.
- The properties of a compound are usually different than the properties of the elements it contains.

Mixtures:

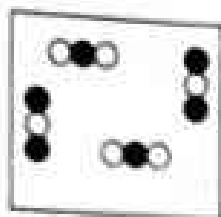
- Two or more _____ or _____ NOT chemically combined.
- No reaction between substances.
- Mixtures can be uniform (called _____) and are known as solutions.
- Mixtures can also be non-uniform (called _____).
- Mixtures can be separated into their components by chemical or physical means.
- The properties of a mixture are similar to the properties of its components.

Part 2: Classify each of the following as elements (E), compounds (C) or Mixtures (M). Write the letter X if it is none of these.

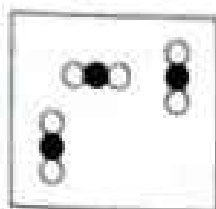
- | | | | |
|--------------------------------|--|---------------------|-----------------|
| ___ Diamond (C) | ___ Sugar (C ₆ H ₁₂ O ₆) | ___ Milk | ___ Iron (Fe) |
| ___ Air | ___ Sulfuric Acid (H ₂ SO ₄) | ___ Gasoline | ___ Electricity |
| ___ Krypton (K) | ___ Bismuth (Bi) | ___ Uranium (U) | ___ Popcorn |
| ___ Water (H ₂ O) | ___ Alcohol (CH ₃ OH) | ___ Pail of Garbage | ___ A dog |
| ___ Ammonia (NH ₃) | ___ Salt (NaCl) | ___ Energy | ___ Gold (Au) |
| ___ Wood | ___ Bronze | ___ Ink | ___ Pizza |
| ___ Dry Ice (CO ₂) | ___ Baking Soda (NaHCO ₃) | ___ Titanium (Ti) | ___ Concrete |

Name _____

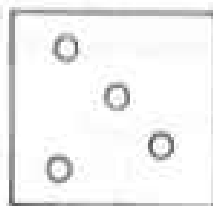
Part 3: Match each diagram with its correct description. Diagrams will be used once.



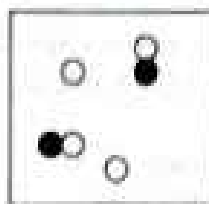
A



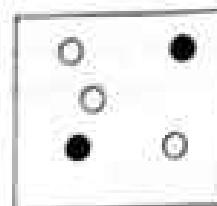
B



C



D



E

- ___ 1. Pure Element - only one type of atom present.
- ___ 2. Mixture of two elements - two types of uncombined atoms present.
- ___ 3. Pure compound - only one type of compound present.
- ___ 4. Mixture of two compounds - two types of compounds present.
- ___ 5. Mixture of a compound and an element.

Part 4: Column A lists a substance. In Column B, list whether the substance is an element (E), a compound (C), a Heterogeneous Mixture (HM), or a Solution (S). (Remember a solution is a homogeneous mixture.) In Column C, list TWO physical properties of the substance.

Column A	Column B	Column C
1. Summer Sausage		
2. Steam		
3. Salt Water		
4. Pencil lead (Pb)		
5. Dirt		
6. Pepsi		
7. Silver (Ag)		
8. Toothpaste (Na_2HPO_4)		
9. A burrito		
10. Italian Dressing		
11. Chicken Soup		
12. Lemonade		

12. $4 \{(-6) + (12 + 3)\} = \underline{\hspace{2cm}}$

- | | |
|------|--------|
| a) 8 | b) -8 |
| c) 9 | d) -12 |

13. $12 - [72 + \{(-4) - 14\}] = \underline{\hspace{2cm}}$

- | | |
|-------|--------|
| a) 12 | b) -16 |
| c) 15 | d) 18 |

14. $10 - [15 - \{11 + 30 + (4 - (-2))\}] = \underline{\hspace{2cm}}$

- | | |
|-------|--------|
| a) 11 | b) -11 |
| c) 10 | d) -10 |

15. The absolute value of -15 is $\underline{\hspace{2cm}}$.

- | | |
|--------|------|
| a) -15 | b) 0 |
| c) 15 | d) 1 |

16. By how much does 10 exceeds -10?

- | | |
|-------|--------|
| a) 10 | b) -20 |
| c) 15 | d) 20 |

17. $(-15) - \{(-5) - [56 + (-16 + 9)]\} = \underline{\hspace{2cm}}$

- | | |
|--------|------------------|
| a) -15 | b) 18 |
| c) -18 | d) None of these |

18. The quotient of two integers with same sign is positive. Mark True / False.

- | | |
|---------|----------|
| a) True | b) False |
|---------|----------|

19. The quotient of two integers with different sign is positive. Mark True / False.

- | | |
|---------|----------|
| a) True | b) False |
|---------|----------|

20. In general $(a + b) + c = a + (b + c)$. Mark True / False.

- | | |
|---------|----------|
| a) True | b) False |
|---------|----------|

WORKSHEET FOR HOLIDAY

CLASS - VII

A. Fill in the blanks with abstract nouns made from the words given in brackets.

- 1) Modern _____ have made life easy. (Invent)
- 2) We were attracted by the _____ of the mountains. (Beautiful)
- 3) All the customers were doubtful about the shopkeeper's _____. (Honest)
- 4) All _____ was lost between the two neighbours. (Bitter)
- 5) There is very little _____ between _____ and _____. (Differ, Succeed, Fail)

B. Some collective nouns have been used incorrectly in these sentences. Rewrite those sentences replacing the incorrect with the correct collective nouns.

- 1) A colony of honeybees has one queen bee and thousands of worker bees.
- 2) An army of ships is sailing towards the North Pole.
- 3) An ambush of ants moved in a line carrying leaves.
- 4) A hive of wolves howled at the full moon.

- 5) A mob of geese migrated from the bird sanctuary yesterday.
- 6) A murder of owls lives near the giant oak tree.
- 7) A clump of apple trees is a great place to climb and eat.

c. Identify the different kinds of nouns in these sentences and name them.

- 1) A swarm of bees descended on the flowers in the garden.
- 2) The spectators burst out into laughter at the sight of the comedian.
- 3) The Queen of Jhansi, Rani Lakshmbai, is famous for her bravery in the Indian history.
- 4) The earth revolves around the Sun and rotates on its own axis.
- 5) The choir sang beautifully during the Sunday mass at the church.
- 6) John and Mary are going to attend a friend's marriage ceremony.

ST. PETER'S INTER SCHOOL

Sanjua , Bakrahahat , South 24 pgs

WORKSHEET

CLASS - VII , SUBJECT - IT

NAME - _____ ROLL- _____

A. TICK THE CORRECT ALTERNATIVE :

- i) Any sort of data is stored internally in a computer as - (decimal / binary / octal) number .
- ii) The binary equivalent of 8 is -- (100 / 1000 / 10000) .
- iii) The Babylonian counting system was developed around -- (3000 / 5000 / 8000) BC .
- iv) (\$A\$5 / \$D4 / F4) -- is a example of Absolute reference .
- v) Autosum function will not stop including cells once it gets a cells containing -- (blank OR other than number value / number value / binary value) .
- vi) The rightmost digit of a number is called the -- (MSD / LSD / DSD) .
- vii) The (= / + / &) is to be typed in a an excel cell before entering the formula .
- viii) (Romanian / Babylonian / Greek) Number system has no relation between a digit and its position .
- ix) What is the value of the following experssion according to precendence rule
 $4*8+72/9$ -- (45 / 46 / 40)
- x) Binary number system has -- (2 / 4 / 5) digits .

B. ANSWER THE FOLLOWING QUESTIONS IN FULL SENTENCE :

- i) Represent each numbers into Romans : 1 , 50 , 72 , 69

ans:

- ii) Who invented zero ?

ans:

ii) Who invented zero ?

ans:

iii) Mention the name of the book written by Bramhagupta .

ans:

iv) How we can write $(1011)_2$ in Decimal number system ?

ans:

v) Why we use CONCATENATE function in Excel ?

ans:

vi) Define Absolute Reference .

ans:

vii) Who invented the place value notation ?

ans:

viii) For which type of mistake '#VALUE' message will occur ?

ans:

ix) How many digits are there in Hexadecimal number system ?

ans:

x) In which early age counting system base 60 system was used ?

ans:

ST. PETER'S INTER SCHOOL

Sanjua, Bakhrahat, South 24 Pgs.

Worksheet

Class - VII Subject - Hindi

Name _____ Roll No. _____

सही शब्द चुनकर वाक्य पूरे कीजिए

1. गाजर का गरम _____
(कागज/ हलवा)

2. _____ दाना खाकर उड़ गई !
(चिड़िया/गुड़िया)

3. दीवार पर _____ सजाया ।
(दलिया/ दीपक)

4. बुतबुल _____ नाची ।
(धूमका/ ताली)

प्रश्न 2 समान लय वाले शब्दों के जोड़े बनाइए:

1 ताला

मकड़ी

2 टिकट

माला

3 बुलाना

निकट

4 लकड़ी

सुलाना

ST. PETER'S INTER SCHOOL

Sanjua, Bakrahahat, South 24 Pgs.

Worksheet

Class - VII Subject - Hindi

Name _____ Roll No. _____

प्रश्न1- वर्ण किसे कहते हैं ?

- a) ऐसे शब्द जिनके टुकड़े किए जा सकें ।
- b) ऐसे शब्द जिनके टुकड़े न किए जा सकें ।
- c) ऐसी ध्वनियाँ जिनके टुकड़े न किए जा सकें ।

प्रश्न2 - किसी भाषा को समझने के लिए निम्न में से कौन-सा तरीका सही है ?

- a) मौखिक और लिखित रूप
- b) पठन व लेखन रूप
- c) उपर्युक्त दोनों सही हैं

प्रश्न3 - लिपि किसी भाषा को लिखने की _____ होती है ।

क)

स्थिति

ख)

जारा

ग)

लिपि

ST. PETER'S INTER SCHOOL

Sanjua, Balhrahahat, South 24 Pgs.

Worksheet

Class - VII Subject - Hindi

Name _____ Roll No. _____

निम्नलिखित शब्दों की संधि कीजिये।

रजनी + ईश = रजनीश

वीर + उचित = _____

योगी + इंद्र = _____

मानव + उचित = _____

विधु + उदय = _____

घर + उपकार = _____

नर + इंद्र = _____

हित + उपदेश = _____

सुर + इंद्र = _____

महा + उत्सव = _____

पुष्प + इंद्र = _____

देव + ऋषि = _____

सत्य + इंद्र = _____

महा + ऋषि = _____

परम + ईश्वर = _____

सप्त + ऋषि = _____

सोम + ईश = _____

ब्रह्म + ऋषि = _____

रमा + ईश = _____

राज + ऋषि = _____

देव + ईश = _____

अति + अधिक = _____

देव + इंद्र = _____

यदि + अपि = _____

महा + इंद्र = _____

अति + आचार = _____

उमा + ईश = _____

अति + उत्तम = _____

कमल + ईश = _____

प्रति + उपकार = _____

महा + उदय = _____

इति + आदि = _____

ST. PETER'S INTER SCHOOL

Sanjua, Bakhrahat, South 24 Pgs.

Worksheet

Class - VII Subject - Math

Name _____ Roll No. _____

1. (a) $\frac{1}{2} + \frac{2}{3} = \square$

(b) $\frac{5}{7} - \frac{2}{3} = \square$

2. (a) $\frac{2}{3} \times \frac{5}{7} = \square$

(b) $\frac{2}{3} \times \frac{9}{20} = \square$

3. The two-third of 42 is _____.

4. Find the missing number :

(a) $3\frac{3}{4} - \square = 4$

(b) $12 - 2\frac{3}{4} = \square$

5. Divide $\frac{15}{24}$ by $\frac{3}{4}$.

6. Karim had 20 toffees. He took these toffees with him to a picnic with four of his friends. Karim along with friends, shared these toffees equally. How many toffees did each one get?

7. How long is 88 6km than 48 km?

8. If cost of 20 pens is ₹ 356.80, then find the cost of a pen.

9. Kartikeya bought 5 kg 500g apples and 3 kg 250g of oranges. Shivani bought 4kg 200g mangoes and 4kg 500g guavas. Who bought more fruits and how much?

10. Express in kg:

(a) 4730g

(b) 8kg 4g

11. Soniya ate $\frac{2}{5}$ part of an apple and her younger brother Sonu ate the remaining part. What part of the apple did Sonu eat? Who had the longer share and by how much?

12. Convert

(a) 0.25 into fraction

(b) $\frac{19}{20}$ to decimal form.

ST. PETER'S INTER SCHOOL

Sanjua, Bakrahat, South 24 Pgs.

Worksheet

Class - VII Subject - Math

Name _____ Roll No. _____

7. Multiply : $\frac{14}{25} \times \frac{35}{68} \times \frac{34}{49}$
8. Simplify : $3\frac{4}{7} \times 2\frac{2}{5} \times 1\frac{3}{4}$
9. Find $\frac{7}{8}$ of a kilogram.
10. Find $\frac{4}{5}$ of an hour.
11. Simplify : $\frac{12}{25} \times \frac{15}{28} \times \frac{35}{36}$
12. By what number should $2\frac{3}{5}$ be multiplied to get $1\frac{6}{7}$?
13. A carton contains 16 boxes of nails and each box weighs $4\frac{3}{4}$ kg. How much would a carton of nails weigh?
14. Meena spends $\frac{4}{5}$ of her income on household expenses. Her monthly income is ₹ 15,000. How much does she save?
15. Divide $\frac{5}{9}$ by $\frac{2}{3}$
16. Divide 45 by $1\frac{4}{5}$
17. Solve : $5\frac{3}{7} + 2\frac{5}{7}$
18. Simplify : $3\frac{3}{7} + \frac{8}{21} \times \frac{1}{27}$
19. By what number should $6\frac{2}{9}$ be divided to obtain $4\frac{2}{3}$?
20. By what number should $6\frac{2}{9}$ be multiplied to get 40?
21. Convert 0.75 into a fraction.
22. Convert $\frac{17}{20}$ into a decimal.
23. Convert $\frac{25}{8}$ into a decimal.
24. Find the place value of 2 in 48.032.

ST. PETER'S INTER SCHOOL

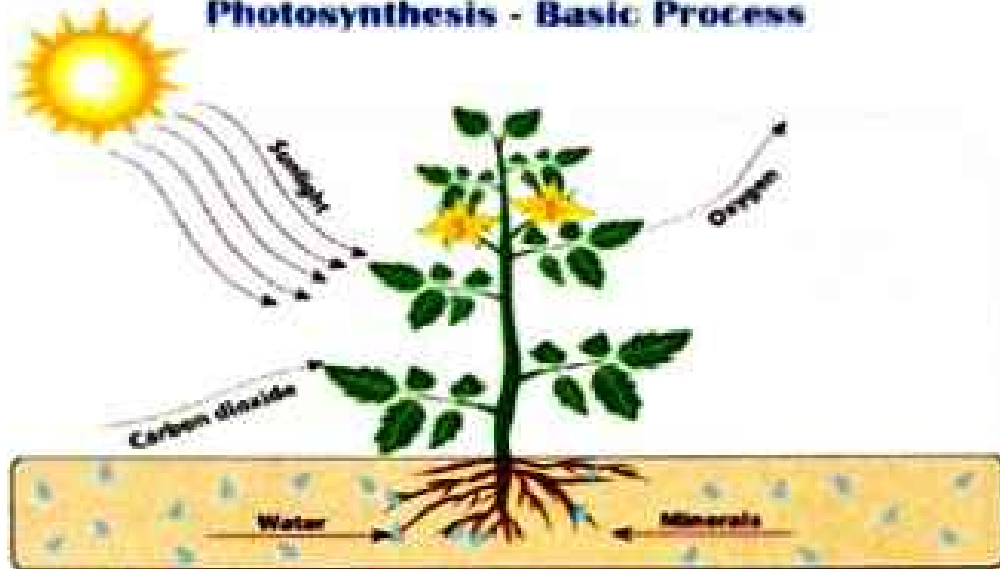
Sanjua, Bakhrahat, South 24 Pgs.

Worksheet

Class - VII Subject - Science

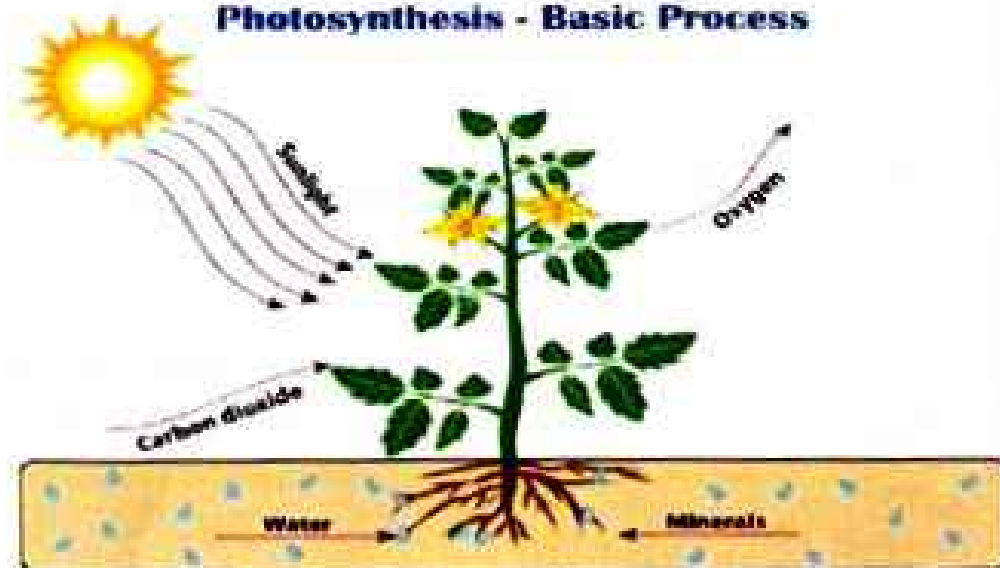
Name _____ Roll No. _____

Photosynthesis - Basic Process



During the _____ plants absorb sunlight, _____ and _____ from the soil and _____ from the air to make their own food. In this process, they release _____ into the air for the living things to live.

Photosynthesis - Basic Process



During the _____ plants absorb sunlight, _____ and _____ from the soil and _____ from the air to make their own food. In this process, they release _____ into the air for the living things to live.

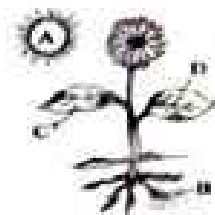
ST. PETER'S INTER SCHOOL
Sanjua, Bakrahat, South 24 Pgs.
Worksheet
Class - VII Subject - Science

Name _____ Roll No. _____

II. Observe the diagrams and answer the questions

5. Identify the aspects related with photosynthesis

- a) _____ c) _____
 b) _____ d) _____



6) Answer to the questions given below by observing given plant.

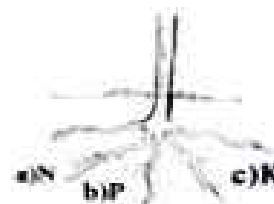
- a) What type of plant is this
 b) Mention the name of structure A
 c) The name of this plant is
 d) Why this modification made by _____ the plant



- Ans : a) _____
 b) _____
 c) _____
 d) _____

7) Expand the major nutrients of the soil required for plant growth.

- a) _____
 b) _____
 c) _____



III. Choose the suitable word from the list

(chlorophyll, Rhizobium, lichness, stomata)

- 8) A combination of alga and fungus. _____
 9) Nitrogen fixing bacteria in the soil. _____
 10) Green pigment present in the leaf. _____
 11) Small pores present in the leaf. _____

ST. PETER'S INTER SCHOOL

Worksheet

Subject - Hindi 3rd language

Name - _____ Roll - _____

खाली स्थान पर क्रमानुसार व्यंजन लिखिये

क	ग		ज
	ख	घ	
ट		ण	झ
	थ	द	न
प	ब		म
य		व	श
	स		ह
क्ष		श्च	ा









ST. PETER'S INTER SCHOOL

Worksheet

Subject – Hindi 3rd language

Name - _____ Roll - _____

Match picture with the akshar

अ	
औ	
आ	
ए	
उ	
अं	
ए	
अ	

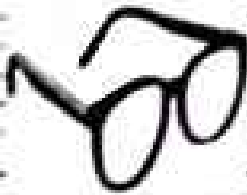
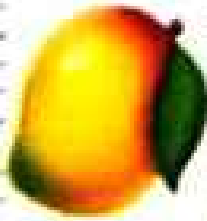
ST. PETER'S INTER SCHOOL

Worksheet

Subject - Hindi 3rd language

Name - _____ Roll - _____

चित्र देखकर पहला अक्षर लिखो।



ST. PETER'S INTER SCHOOL

Worksheet

Subject - Hindi 3rd language

Name - _____ Roll - _____

सही वर्ण को चित्र से मिलाओ



ख



क



अ



आ



इ



ऊ

ST. PETER'S INTER SCHOOL

Worksheet

Subject - Hindi 3rd language

Name - _____ Roll - _____

अक्षरों को जोड़कर लिखिए 

स + ब =

भ + स =

य + ल्य =

ज + ब =

न + ल =

ब + स =

स + ल =

ल + ब =
