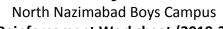
The City School



Reinforcement Worksheet (2019-20) Science

lass 7

	Class /
Name:	Date: Section:
Q) Fill	in banks with suitable words
a.	Acid reacts with carbonate to produce gas.
b.	Change in state of matter is a change
c.	is needed to bring about a chemical reaction.
d.	We use to represent chemical reaction.
e.	Sulphur and Iron reacts to produce
Q) Sel	ect the right answer from the given options:
I. Whic	ch of the following is a chemical change?
a.	Bursting of a fire cracker
b.	Germination of seed
c.	Coal formation
d.	all of these
II. In w	hich type of change a new substance is formed
a.	Physical change
b.	Chemical change
c.	in both
d.	none of above
III. Ligh	ntening candle is a
a.	Physical
b.	Chemical
c.	Both
d.	None of above
IV. Wh	en a dilute acid reacts with certain metals gas is produced.
a.	Carbon dioxide
b.	Hydrogen
c.	Chlorine

d. Methane

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ii.	A parallel circuit connects all components in one loop.	
iii.	Electric current is measured in Joules.	Since 14/6
iv.	A rheostat has fixed resistance.	
Q)	Look at each circuit diagram below. If you think the bulb or bulbs will light, put a tick in the box. If you do not think the bulb or bulbs will light, put a cross in the box.	_
Q) H	ow can carbon dioxide gas be identified?	

Q) Explain why the statues and marble buildings are affected by acid rain.	The mount
Q) Complete the following word equations:	
a) Hydrogen + Oxygen	
b) Copper carbonate	
c) Methane + Oxygen	
Q) Why do you think we should not mix unknown substances together?	
Q) Arrange the followings according to their sizes.	
Bacterium, plant cell, Virus, Human hair, Atom Animal cell	
Q) State Bohr's Atomic Model.	
Q) Why does an atom exist as a neutral particle?	

a.	State the number of electrons and Protons in Chlorine.
b.	Write down the name and symbol of the particle formed when Chlorine gains 1 electron?
c.	Write down the chemical formula of the compound when one Hydrogen atom reacts with one
	chlorine atom.
Q) Ide	ntify the group of organisms by using the following hints:
a.	They have dry scaly skin,
	They are cold blooded,
	Some live on land and some live on water,
	They lay eggs with leathery shells
	They belong to class (group)
b.	They have simple eyes and have one pair of antennae,
	They have many legs, with two pairs on each segment,
	They belong to class (group)
Q) Sta	te the general characteristics of Arthropods.
Q) Ho	w are Angiosperms different from Gymnosperms? Give their examples as well

Q) The atomic number of Chlorine is 17:

i.	Mammals give birth to young ones except	and	Since 1470
ii.	Invertebrates are without	·	
iii.	Crocodile, snake, lizard, tortoise are examples o	f group of ver	tebrates.
iv.	The animals maintain a	a constant temperature of their body.	
v.	Vascular plants are classified into	and	_•
Q) D	ifferentiate between an Element and Compound.		
	Element	Compound	
-	lassify the following into element and compound:		
Suga	er, Copper, Lead, Silicon, Water, Carbon monoxide, Elements	Mercury, Boron, Ammonia, Copper car Compounds	bonate
	Lichichts	Compounds	
Q) C	omplete the following equations.		
ā	a. Ammonia + Ammo	nium chloride	
k	o. Hydrogen + Oxygen		

Q) Fill in the blanks:

Q) Describe the function of parts of microscope given below:

a. Base

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Fig.	and the
1.00	TO MARK

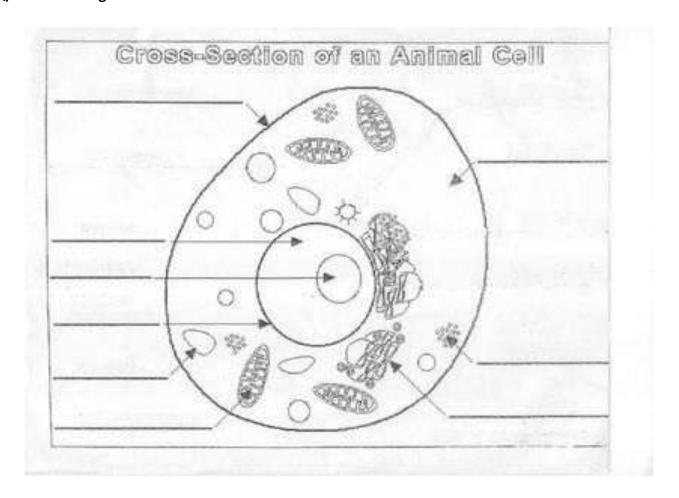
b.	Objective lenses:		

c. Focus knob

Q) Fill in the blanks:

- i. Chromosomes are made of ______ proteins.
- ii. Chloroplast contains a green pigment called ______.
- iii. _____ is filled with cell sap.
- iv. Plant cell has ______ shape.
- v. The cell that divide to produce two daughter cells.

Q) Label the diagram:



O	Classif	v the	following	into	elements	. com	pounds	and	mixtures.
ų,	Classii	y thic	10110 WILLE	,	Cicilicitis	,	pourius	ullu	IIIIAtui C3

Sand, Bronze, Bromine, Sodium chloride (Common salt), Salt solution, Aluminum, Diamond, Muddy was Milk, Marble (Calcium Carbonate)

Element	Mixtures	Compound

Q) Complete the following reactions, showing the formation of different compounds.					
i.	Nitric oxide + Nitrogen dioxide				
ii.	Ammonia + Hydrogen chloride				
Q) Wr	ite example of some chemical reactions representing the following properties of compounds				
i.	Compounds can only be broken down into simpler substances by chemical reactions.				
ii.	The different elements in a compound are joined together in a fixed proportion by mass.				
Q) Wr	ite reasons for the following statements:				
i.	Air is a mixture not a compound because:				

iii. Fractional distillation is used to separate different types of oils instead of using simple distillation because:

Metals are used in making wires. Because:

ii.

Q)	Differentiate	between	a mixture	and	Com	pound
\prec	Differentiate	SC CVV CCII	a IIIIAtai C	ullu	COIII	POGIII

		10		X
1	0	A	V	•
1				y ,
E		24		á
	140	100	100	0

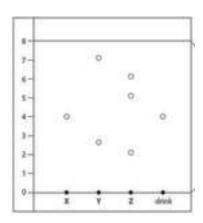
Mixture	Compound

Q) Identify the separation technique for the following mixtures:

	Mixtures	Separation technique
1	Sugar solution	
2	Iron filling and sand	
3	Drugs from blood sample	

Q) Charles used the chromatography technique to analyze his drink. Which component did he find in his drink x, y or z

Answer



Q) Correct the following incorrect statements:

- i) Metalloids have the property of metals and as well of solids.
- ii) The SI unit of density is cm³.

iii) Increasing the weight of submarine rather than the up thrust, helps in floating.

iv) The pH of water is 9.

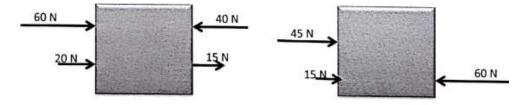


v) Waxing gibbous is a decrease after a full moon.

- Q) Write down the names of the following elements given below:
 - i. Calcium:
 - **ii.** Sodium: _____
- iii. Chlorine:
- iv. Sulphur : _____
- **v.** Copper : _____
- Q) Name the tissues that heart is made up of, what are these tissues in turn made up of?

- Q) When Zinc is added to Hydrochloric acid two new substances, Zinc chloride and Hydrogen are formed:
 - i. Write word equation for the above chemical reaction
- _____
- ii. Is Zinc chloride an element or a compound? Explain

Q) Are the forces balanced in each of the following situations. What will happen to the object in each case?



		Sec 1970
Q) D	efine the following:	
a	. Division of labour	
b	. Tissues	
Q) W	rite the function of a Heart.	
Q) Na	ame the systems found in plants.	
Q) V	Vhat does the respiratory system do?	
O) E:	II in the blowler	
	Il in the blanks:	
i. 	Force is measured in	
ii.	Acan speed up, slow down or stop moving object.	
iii.	If someone pushes a box with a force of 50N and another person pulls it with resultant force will be	the force of 30N, the
iv.	A force has both size and	
٧.	The gravity of pulls the planets and their moons to orbit it.	
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Q) What is meant by Renewable energy resources? Give some examples.	
	The marks
Q) How can mass be differentiated to weight?	
Q) The mass of a 50 cm ³ is 25g, calculate its density.	
Q) Define an element and give some examples of elements of daily use.	
Q) Write symbols of following elements.	
a. Copper	
b. Gold	
c. Coal	
d. Silver	
e. Oxygen	
f. Mercury	

Q) W	Vrite three uses of elements in daily life.	
		Secs 1970
Q) Co	orrect the following incorrect statements:	
i.	The Earth takes 300 days to make one resolution around the sun.	
ii.	The phases of the Moon are caused by the regular movement of the Moon around the Sun.	
iii.	It is the tilt of the Earth's axis which causes the day and night on Earth.	
iv.	Jupiter and Saturn do not have Moons.	
Q) W	rite down the names of the planets from the heaviest to the lightest	
Q) W	hy do stars appear to move?	
Q) W	/hat makes the Earth to sustain life?	

Q) Write few uses of water as a solvent at home or in agriculture.	
	The masses Secondary
Q) How can solutions be used in medicines and industries.	
Q) What is solubility and what are the factors that affect solubility.	
Q) Write few uses of water as a solvent at home or in agriculture.	

Q) 11	iow can solutions be used in medicines and madstries.	
		Since 1476
Q) W	What is solubility and what are the factors that affect solubility.	
Q) Fi	ill in the blanks:	
i.	was an English chemist who suggested that matter is made up o	of small particles
	which are like solid balls.	
ii.	The movement of particles from region of high concentration to a region of lower	concentration is
	called	
iii.	Solids have density.	
iv.	Liquids have definite but indefinite	
٧.	The state of matter depends on theandand	of motion of
	the small particles in the matter.	
Q) Gi	Sive reasons to the following statements:	
i.	Gases easily can be compressed.	
 ii.	Solids have definite shape and definite volume.	
11.	Johas have definite shape and definite volume.	

iii.	Liquids can flow.		
			Second 1970
O) Di	fferentiate between metals and non-	metals with examples.	
ζ,	Metals	Non-metals	
Q) Gi	ve reasons for the following stateme	nts.	
a	. Why is Copper widely used as electi	rical wires?	
b	. Metals are used in making jewelry.		
Q) De	efine a compound.		
-			