INTERNATIONAL INDIAN SCHOOL, RIYADH SA-2 SCIENCE WORKSHEET 2015-2016 CLASS: VIII

CHAPTER: 4 METALS AND NON METALS

I. Answer the following:

- 1. Which property of metals makes them useful as wires?
- 2. What is the green material formed on copper when it is exposed to moist air for a long time?
- 3. Which property of the metals makes them useful as ringing bells?
- 4. Identify the most reactive and the least reactive metal amongst the following: Aluminium, Potassium, Copper, Iron, Zinc, Gold.
- 5. What happens when iron is put into copper sulphate solution?
- 6. State the nature of non-metallic oxides.
- 7. State the nature of metallic oxides.
- 8. What happens when non-metals react with water?

II.	Name the following:		
1.	A metal which exists in liquid state:		
2.			
3.			
4.			
5.			
6.			
7.	The gas produced on reaction of metals with bases:		
8.	. The property of metals by virtue of which they can be beaten into thin sheets:		
	CHAPTER: 6 COMBUSTION AND FUELS		
l.	Fill in the blanks:		
1. 2.	LPG, petrol and alcohol are substances. The hottest region of a candle flame is called		
3.	Incomplete combustion of fuels releases poisonous gas in the air.		
4.	Increased percentage of carbon-dioxide in the air has been link to		
5.	Zone of a candle flame is the coolest region.		
6.	The head of safety match nowadays contains and		
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7.	Burning of fossil fuels release gaseous oxides of, and				
	in the air.				
8.	Combustible substances are also called				
9.	Unburnt carbon particles in the air are dangerous pollutants causing diseases.				
11.	Name the following:				
1.	The fuel with highest calorific value:				
2.					
3.	Any two air pollutants related to acid rains:				
4.	Any two inflammable substances:				
5.					
6.	Two common fire extinguishers:				
7.	Any two chemicals which can be used as alternative source of CO ₂ for putting off fires:				
III.	Choose the correct answer:				
1.	A good fuel should haveignition temperature. (High /medium/low)				
2.					
	ontaneous combustion/rapid combustion/ explosion)				
	form of fuels have the highest calorific value. (Solid/Liquid/Gaseous)				
III .	Define the following:				
	(a) Combustion b) Calorific value c) Ignition temperature d) Inflammable substances				
IV.	Answer the following questions:				
1.	State four characteristics of a good fuel.				
2.	Burning of a candle produces flame while burning of charcoal does not. Give reason.				
3.	State two adverse effects of global warming.				
	CHARTER CONSERVATION OF BUANTS AND ANNALS				
	CHAPTER:7 CONSERVATION OF PLANTS AND ANIMALS				
l.	Fill in the blanks:				
1.	Some natural causes of deforestation are and				
2.	The plants and animals found in a particular area are termed as and				
3.	species are those species of plants and animals found exclusively				
	in a particular area.				
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					. ,	
4.		is made of plants, a			ın an area al	ong
with the non-living components such as climate, soil, river etc.						
5 is the source book which keeps a record of all the endang						
6. Species which have disappeared from this earth are calledspecies.7. refers to the variety of plants, animals and microorganisms four						
7.		refers to the variety of	of plants, animals a	and microo	organisms to	und in an area.
II.	Define the follow	ving:				
1. End	dangered species	2. Endemic species	3. Migration 4. B	3iosphere	5. Biodiver	sity
6	.Sanctuary	7. National Park	8. Biosphere rese	erve g	9. Extinct sp	ecies
		CHAPTER:8 CELI	L-STRUCTURE AND	FUNCTION	<u>s</u>	
I.	Fill in the blanks					
1.	Organisms made	of more than one cel	l are called		organisn	ns.
2.		organisms are called				
3. In amoeba, the change in shape is due to the formation of			of		which	
	facilitates movement and help in capturing food.					
4.	Cells were discovered in cork by					
5.						
6.	Cells having well	organized nucleus wi	th nuclear membra	ane are cal	led	cells.
7.	. Cells without well-organized nucleus i.e. is lacking nuclear membrane are calledcells			dcells.		
8.	8. The dense spherical body found in the nucleus of a cell is called			•		
9.	Α	is a group of simil	ar cells performing	s a specific	function.	
II.	Choose the corre	ect answer:				
1.	Which part of the	e cell contains the org	anelles like mitoch	iondria, rib	osomes etc	.?
	(a) Nucleus	(b) Protoplas	sm (c) Cy	ytoplasm		
2.	Which is the out	ermost layer of an ani	mal cell?			
	(a) Cell wall	(b) Cytoplasr	n (c) C€	ell membra	ne	
3.	Which is the livin	g substance of the ce	II?			
	(a) Protoplasm	(b) Nucleopla	sm (c)Cyt	toplasm		
4.	Which organelle	is called the power ho	ouse of the cell?			
	(a) Mitochondria	(b) Ribosome	s (c) Nu	ıcleus		
5.	Cell wall is an ou	ter thick layer found ir	າ cells of:			
	(a) Amoeba	(b) Bacteria	(c) A	nimal		
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III. Name the following:

- 1. The largest cell which can be seen with unaided eye.
- 2. The coloured bodies found only in plant cells.
- 3. Any two examples of eukaryotes.
- 4. Any two examples of prokaryotes.
- 5. Any two unicellular organisms.
- 6. Any two multicellular organisms.
- 7. The human cell which can change its shape.
- 8. The human cell having branched structure.
- 9. The unit of inheritance in living organisms.
- 10. The basic structural unit of all living organisms.

CHAPTER 9- REPRODUCTION IN ANIMALS

I. Name the following

- 1. Two modes by which animals reproduce.
- 2. The production of an exact copy of a cell or any other living part.
- 3. The process that ensures the continuity of similar kinds of indiviuals.
- 4. The fertilised egg.
- 5. The type of fission in Amoeba.
- 6. Two animals which show metamorphosis.
- 7. Babies born through the technique of invitro fertilisation.
- 8. Two animals showing external fertilisation.
- 9. Two animals showing internal fertilisation.
- 10. The scientist who cloned an animal for the first time successfully.

II. Differentiate between oviparous and viviparous organisms.

III. Tick the correct answer Which one is not an oviparous animal? (a) Hen (b) Frog (c) Man (d)Butterfly 2. Hydra reproduce by: Fragmentation (b) Binary fission (c) Multiple fission (d) Budding 3. Tadpole is the developing stage of: Human (b) Frog (c) Fish (d) Dog 4. A type of cloned sheep is: Dolly (b) Molly (c) Jolly (d) Ewe (a)

- 5. The fusion of male and female gametes is called(a) Fertilization (b) Metamorphosis (c) Fission (d) Budding
 - CHAPTER 10- REACHING THE AGE OF ADOLESCENCE

I. Name the following:

- 1. The hormone produced when one is very angry or worried.
- 2. The chemicals secreted by endocrine glands
- 3. The disease caused due to lack of insulin production.
- 4. The hormone that controls metamorphosis in frogs.
- 5. The mineral required for metamorphosis in frogs.
- 6. The gland which controls the activity of other endocrine glands.
- 7. The hormone which maintains the correct salt balance in the blood.
- 8. Any three glands which release their secretions through ducts.
- 9. The hormone produced by thyroid gland and the disease caused due to lack of its production.
- 10. The gland attached with the brain.

II. Answer the following:

- 1. How many pairs of chromosomes are found in the nucleus of a human cell?
- 2. Why are endocrine glands termed as ductless glands?

CHAPTER 11: FORCE AND PRESSURE

I. Fill in the blanks

1.	A push or pull on an object is called a	•		
			of motion.	
3.	The force resulting due to the action of muscles is kr	nown as	force.	
4.	Muscular force is also called as	force.		
5.	The force exerted by a magnet and electrostatic force	ce are examples of	force.	
6.	Every object in the universe exerts a force on every other object called a force			
7.	. The force acting on a unit area of a surface is called			
8.	Pressure in liquids with the increase in depth of the liquid colum		the liquid column.	
	II. Choose the correct answer: 1. Which of the following will exert the maximum pressure on ground while moving? a) an elephant b)A girl wearing a pencil heel c) Rhinoceros d) Camel			
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2. Force can change:	l of object			
a) Only position of object b) Only speed of object				
c) Only direction of moving objectd) All the above3. Which of the following is not a non-contact force?	ve			
a) gravitational force b) electrostatic force	c) muscular force	d) All of them		
4. A force has:	c) mascalar force	a) / or enem		
a) magnitude b) direction	c) both of them	d) None of them		
5. Which type of force is acting when hair is being pull				
a) Contact force b) Non-contact force				
c) both of them d) None of them				
CHAPTER: 12- FRIC	<u>CTION</u>			
I. Fill in the blanks:				
1. The force of friction always acts in the	direction to the app	lied force.		
2 comes into play when we try to move				
3 comes into play when an object is sl				
4. Sliding friction is always than static f	friction.			
5. Friction can be by using lubricants.				
6. Friction is the force which the relativ	ve motion between two	o surfaces.		
7. Friction can be increased by making a surface				
8. The friction force exerted by fluid is also called				
9. The common name of gases and liquids is				
10. The device used for measuring the force acting on a	an object is	•		
II. Answer the following				
1. Name two methods of reducing friction.				
2. Why are the soles of shoes and tyres of cars, truck e	tc. grooved?			
3. Define friction.	O			
4. What is the cause of friction?				
5. How can be the fluid friction minimized?				

CHAPTER: 13- SOUND

<u>l.</u>	Fill in the blanks.				
1.	To and fro or back and forth motion of an object is called				
2.	In humans, the sound is produced by the or the				
3.	are stretched across the voice box or larynx.				
4.	The vocal cords in men are about mm long.				
	. Noise becomes physically painful at dB.				
6.	Frequency determines the of a sound.				
7.	on the roadside and elsewhere can reduce noise pollution.				
8.	and are two important properties of sound.				
9.	senses the vibrations of sound.				
	Name the following				
	An instrument used for investigating and tracking many medical problems.				
	The major causes of noise pollution.				
-	The sources in homes which may lead to noise.				
-	Any two examples of objects which produce sounds of low frequency or low pitched.				
5.	Any two examples of objects which produce sound of high frequency or high pitched.				
	CHAPTER 14- CHEMICAL EFFECTS OF ELECTRIC CURRENT				
<u>l.</u>	Fill in the blanks:				
1.	Distilled water is a conductor of electricity.				
2.	The dissociation of chemicals into ions due to the passing of electricity through it is called of electricity.				
3.	The distilled water becomes of electricity on dissolving salt in it.				
4.	are the wires/rods/plates through which electricity enters and leaves an electrolyte				
5.	The longer lead of LED is always connected to theterminal of the battery.				
7.	The passage of electric current through liquids causes effects of electricity.				
	In galvanization, coating of on iron is done to protect it from corrosion.				
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II. Answer the following:

- 1. Name two liquids that conduct electricity.
- 2. What is LED?
- 3. Define Electroplating
- 4. Name some materials around you which conduct electricity.
- 5. Name some materials around you which do not conduct electricity.

CHAPTER:15- NATURAL PHENOMENON					
I. Fill in the blanks					
1. The process of transf	erring of charge from a charged object to	the earth is called			
	2. The electrical charges produced by rubbing are charges.				
3. When charges move, they constitute an					
	n buildings to protect us from				
	sed to test whether an object is carrying c				
6. The process of electri	c discharge between clouds and the earth	or between different clouds			
causes	·				
	each other while unlike charges	each other.			
II. Answer the following	g questions:				
1. Define: lightning cond	ductor				
	CHAPTER 16 : LIGHT				
I. Answer the following	g question :				
1. Name the angle betw	een the normal and the incident ray.				
2. Name the angle betw	reen the normal and the reflected ray.				
3. Name the small opening present in Iris.					
II. Fill in the blanks:					
1. Visually challenged persons can read and write using system.					
2. In an image formed by a plane mirror, the left of the object appears on the right and vice-versa.					
This is known as 3. Splitting of light into its colours is known as					
4. Our eyes see everything around us due to light.					
4. Our eyes see everything around us due to light.					
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III. Choose the correct answer:

- 1. When we say that a person has black, blue or green eyes, we refer actually to the colour of
 - a. Lens
- b. Cornea
- c. Iris
- d. Pupil
- 2. The lens focuses light on the back of the eye, on a layer called
 - a. cornea
- b. retina
- c. lens
- d. pupil
- 3. Among the following which cells are sensitive to bright light
 - a. rods
- b. cones
- c. Both
- d. None
- 4. Among the following which cells are sensitive to dim light.
 - a. rods
- b. cones
- c. Both
- d. None of them
- 5. An owl can see very well in night but not during the day because:
 - a. It has more no. of cones and only a few rods
 - b. It has more no. of rods and only a few cones
 - c. Same no. of cones and rods

CHAPTER: 17 STARS AND THE SOLAR SYSTEM

I. Answer the following:

- 1. What is a light year?
- 2. What is a satellite? Name the first artificial satellite launched by India.
- 3. How do artificial satellites help in our lives?
- 4. Why does the Pole Star appear to be stationary from earth?
- 5. Why do we see only a part of the moon?

II. Name the following:

- 1. The large number of rocks that lie between the orbits of Mars and Jupiter.
- 2. The brightest planet of the solar system.
- 3. The red planet of the solar system.
- 4. The yellow planet of the solar system.
- 5. The largest planet of the solar system.
- 6. The smallest planet of the solar system.
- 7. The largest planet of the solar system.
- 8. The outer and inner planets.
- 9. The second nearest star to our earth.
- 10. The least dense planet of the solar system.

CHAPTER: 18 POLLUTION OF AIR AND WATER (ASSIGNMENT)

I. Name the following:

- 1. Contamination of air.
- 2. The gas produced due incomplete burning of fossil fuels.
- 3. The undesirable substances released into the air.
- 4. Two methods to reduce air pollution by the automobiles in Delhi.
- 5. Water suitable for drinking.
- 6. Some greenhouse effect gases.
- 7. The disease suffered by the Taj Mahal.
- 8. The gas used in the ACs and several sprays causing air pollution.

II. Answer the following:

- Q1. What is potable water?
- Q2. Name some diseases caused due water pollution?
- Q3. What is Green house effect?
- Q4. State three methods of purifying water.
- Q5. When was the Ganga Action Plan launched? What is its aim?