## SCIENCE 4 DIAGNOSTIC/ACHIEVEMENT TEST S.Y.

## **TABLE OF SPECIFICATIONS**

LEARNING COMPETENCY	NO. OF ITEMS	PLACEMENT	PERCENTAGE	
Identify Filipino and or Foreign Scientist and their contributions	2	1-2	5	
2. Identify the effects of decaying materials on one's health and safety.	1	3	2.5	
3. Demonstrate proper disposal of waste according to the properties of material.	1	4	2.5	
4. Describe the changes in solid materials when they are bent, pressed, hammered or cut.	1	5	2.5	
5. Describe changes in properties of materials when exposed to certain conditions such as temperature or when mixed with other materials.	2	6-7	5	
6. Identify changes in materials whether useful or harmful to one's environment.	2	8-9	5	
7. Describe the main function of the major organs.	2	10-11	5	
8. Identify the causes and treatment of diseases of the major organs.	1	12	2.5	
9. Practice health habits to maintain a healthy body.	2	13-14	5	
10. Compare body movements of animals in their habitat.	1	15	2.5	
11. Choose which animals to raise in a particular habitat.	1	16	2.5	
12. Identify the specialized structures of terrestrial and aquatic plants.	2	17-18	5	
13. Choose which plants to grow in a particular habitat.	1	19	2.5	
14. Compare the stages in the life cycle of organisms.	1	20	2.5	
15. Describe some types of beneficial interactions among living things.	2	21-22	5	
16. Describe certain types of harmful interactions among living things.	2	23-24	5	
17. Practice safety measures in physical activities and proper handling of materials.	2	25-26	5	
18. Describe the force exerted by magnets.	1	27	2.5	
19. Describe how light, sound and heat travel.	1	28	2.5	
20. Describe the ways to protect oneself from exposure to excessive light, heat and sound.	2	29-30	5	
21. Compare and contrast the characteristics of different types of soil.	1	31	2.5	
22. Explain the use of water from different sources in the context of daily activities.	1	32	2.5	
23. Infer the importance of water in daily activities.	1	33	2.5	
24. Use weather instruments to measure the different weather components.	2	34-35	5	

25. Identify safety precautions during different weather conditions.	2	36-37	5
26. Describe the changes in the position and length of shadows in the surroundings as the position of the sun changes.	2	38-39	5
27. Describe the effects of the sun.	1	40	2.5
TOTAL	40		100%

## SCIENCE-4 DIAGNOSTIC/ACHIEVEMENT TEST

Na	mme: Score:
	rade & Section:
-	
Cł	noose the letter of the correct answer.
1.	A Filipino scientist who discovered the videophone, compass, and solar devices. The scientist being
me	entioned is?
	A. Agapito Flores C. Gregorio Y. Zara
	B. Fernando Paras Jr. D. Alexander Bell
2.	The ways on how to cook "balut" that people are enjoying nowadays, was first invented by
	A. Agapito Flores C. Lawrence Luellen
2	B. Alexander Bell D. Fernando Paras Jr.
3.	Which of the following is an effect of decaying materials on one's health and safety?
	A. Decaying materials can make people sick.
	B. Decaying materials can be breeding places of harmful insects.
	<ul><li>C. Decaying materials can make drinking water not safe to drink.</li><li>D. A,B,C</li></ul>
1	Who among the following practices proper disposal of wastes?
4.	A. Matteo segregates wastes into biodegradable and non-biodegradable.
	B. Steffi throws garbage in the bodies of water.
	C. Winston burns plastics in their backyard.
	D. Jackson throws garbage anywhere.
5	What happens to solid materials when they are bent, pressed, hammered or cut?
	A. Solid materials change in color.  C. Solid materials change in size and shape.
	B. Solid materials does not change.  D. Solid materials change in odor and color.
6.	What happens when you mix water and cooking oil?
	A. Water and cooking oil does not completely mix.  C. Water and cooking oil completely mix.
	B. Water and cooking oil change in shape.  D. Water and cooking oil change in size.
7.	What happens when an ice cube is heated?
	A. The ice cube stays the same.  C. The ice cube changes in color.  D. The ice cube solidifies
	b. The lee cube mens.
8.	Cutting a piece of cloth to make a handkerchief is to one's environment.
	A. harmful B. unsafe C. useful D. hurtful
9.	Burning of plastics and non-biodegradable materials is to one's environment.
1.0	A. harmful B. healthy C. useful D. good
10	Which of the following is the function of the kidneys?
	A. It is where final digestion takes place.  C. It pumps blood to all parts of the body.
11	B. It is the framework of the body.  D. They remove liquid wastes from the blood.
11	Which of the following is the function of the heart?
	<ul><li>A. It is where final digestion takes place.</li><li>B. It is the framework of the body.</li><li>C. It pumps blood to all parts of the body.</li><li>D. They remove liquid wastes from the blood.</li></ul>
12	Which of the following is a cause of constipation?
14	A. Lack of water and fiber in food taken  C. Improper bowel movements
	B. Poor hygiene  D. A, B, C
13	Which of the following is a good health habit to keep the body healthy?
15	A. Eat a balanced diet.  C. Exercise daily.
	B. Get enough rest.  D. A, B, C
14	. Who among the following practices good health habit?
	A. Matteo sleeps late at night.  C. Steffi loves eating junk foods and processed food.
	B. Jackson drinks lots of water.  D. Winston prefers to drink soft drink than water.
15	. How do animals that live on land move?
	A. walk, hop, swim  C. walk, hop, jump
	B. walk, swim, fly D. jump, hop, swim
16	. Which among the animals should you raise in a pond?
	A. cow B. dog C. cat D. duck
17	Which of the following is a specialized structure of a rose plant?
4.0	A. thorns B. thick leaves C. long roots D. fleshy stem
18	Which of the following is a specialized structure of water lily?
	A. thorns B. long roots C. fleshy stem D. thick, buoyant leaves

	A. euphorbia	B. water lily	C. z	igzag	D. roses	
20.	What is the difference and incomplete me	_	he life	cycle of	animals that undergo complete metamorphos	sis
	A. Complete metamor B. Complete metamor	phosis has four stages w	hile in	complet	te metamorphosis has three stages. e metamorphosis has four stages. metamorphosis has five stages.	
21.	D. Complete metamor Which of the following	phosis has seven stages g correctly describes M	while i <b>utualis</b>	ncompl <b>m</b> ?	ete metamorphosis has six stages.	
					enefit from the relationship.  ism benefits while the other is not harmed n	or
					le the other one is harmed or badly affected. g between organisms for the things needed f	or
22.	Which of the following	g correctly describes Co	ommen	salism	)	
					ies benefit from the relationship.  nism benefits while the other is not harmed n	or
	C. Commensalism affected.	is a type of interaction	where	one be	enefits while the other one is harmed or back	lly
	survival.				ng between organisms for the things needed f	or
23.		g correctly describes Pi				
	B. Predation is a type	of interaction where one	e benefi	its while	nefit from the relationship.  e the other one is harmed or badly affected.	For
	survival.				sm benefits while the other is not harmed n	
	affected.	7) P 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5-8		
24.		g correctly describes Co				
					benefit from the relationship.	_
		•			while the other one is harmed or badly affected g between organisms for the things needed f	
		ne type of interaction w	here on	ne organ	ism benefits while the other is not harmed n	or
25.		g is a safety measure in				
	B. Block the exit area	1		D. I	Run when you go out of the room. Do not run in the corridors and in the pathway	'S.
26.		g shows safety measure				
	A. Play with your toy				limb cabinets or step on the chairs and tables.	
	B. Do not play in your Which of the followir	g correctly describes the		A, B, C everted	hy magnets?	
<u>-</u> / .		ferent, they repel each o		CACITCU	by magnets:	
	-	Ferent they attract each of				
	C. If the poles are the	same, they attract each	other.			
	D. A, B, C					
28.	How does light travel			G .		
	A. Light always trave	_			ight always travels in a circular line.	
29		ls in a rectangular line. yourself from too much	heat of		ight always travels in any direction.	
<b>-</b> / .	A. Use sunglasses wh		110at 01	are sull	•	
	B. Use umbrellas whe					
	C. Apply sunblock lot	ion on your skin if you	stay un	der the	sun.	
	D. A, B, C					

30. One way to protect yourself from excessive is to avoid it How can you avoid excessive noise?

B. Hang curtains on the walls to absorb the loud noise. D. A, B, C

A. Avoid having too much noise in a room.

C. Use soft materials to cover hard surfaces.

19. Which of the following should you grow in an aquatic environment?

31.	Which of the following is a correct comparison	of	clay and	d loam soil?			
	A. Clay is hard and loam is soft.						
	B. Clay has the finest texture while loam has fit	ne to	exture				
	C. Clay has coarse particles while loam has page			ക്ക			
	D. Clay has fine texture while loam has the fine		-	CS.			
22	How is water used in our daily activities?	osi i	CXtuic.				
32.		$\mathbf{C}$	Water	ia waad far waahina t	ha diahaa		
	A. Water is used for drinking.			is used for washing the	ne disnes.		
22	B. Water is used for cooking.	υ.	A, B, 0	$\boldsymbol{\mathcal{C}}$			
33.	Why is water important?		.1 •	1			
	A. Because water is used for cleaning, washing		athing a	nd preparing food.			
	B. Because water serve as route of transportati						
	C. Because water sustains plant and animal life	€.					
	D. A, B, C						
34.	What instrument is used to know wind direction	n.					
	A. wind vane B. thermometer		C.	anemometer	D. hygrometer		
35.	What instrument is used to measure wind speed	1?					
	A. wind vane B. thermometer		C.	anemometer	D. hygrometer		
36.	All the following is a safety precaution during	a ty	phoon.	Which one is not?			
	A. Stay home and listen for important advisorie	es al	out the	typhoon.			
	B. Store enough food, water, candles and flashl	ight	ts.				
	C. Wade in the sea with your friends.						
	D. Evacuate when necessary.						
37.	Which one should you do during a windy day?						
	A. Burn dried leaves.	C.	Play o	utside.			
	B. Wear thin clothes.		-	t go for a walk under	the trees.		
38.	Which of the following is the correct description			_			
	A. In the morning as the sun rises, it is low i						
	formed.			, ,	C		
	B. In the morning as the sun rises, it is high in	n th	e horiz	on, its light rays are s	lanted so longer shadows are		
	formed.			, ,	C		
	C. In the morning as the sun sets, it is low in	the	horizo	n, its light rays are sl	anted so shorter shadows are		
	formed.						
	D. In the morning as the sun sets, it is high in	n the	e horizo	on, its light rays are sl	anted so shorter shadows are		
	formed.						
39.	Which of the following is the correct description	n o	f the po	sition and length of the	he shadows at noontime?		
	A. At noon, the sun is directly above the horizon, the light rays of the sun strike directly above the objects						
	so longer shadows are formed.						
	B. At noon, the sun is directly above the hori	zon	, the lig	tht rays of the sun stri	ike directly above the objects		
	so shorter shadows are formed.			•	, , , , , , , , , , , , , , , , , , ,		
	C. At noon, the sun is directly above the hori	zon	, the lig	tht rays of the sun stri	ike directly above the objects		
	so wider shadows are formed.						
	D. At noon, the sun is directly above the hori	zon	, the lig	tht rays of the sun stri	ike directly above the objects		
	so no visible shadows are formed.		, .	•	J J		
40.	Which describes the effect of the sun?						
	A. Plants can make their own food because of s	sunl	ight.				
	B. Farmers can harvest and dry their crops.		υ				
	C. Mothers can dry their laundry.						
	D. A, B, C						
	, ,						
	Prepared by:						
	Teacher III						