FFC MODEL SCHOOL

General Science Class 4 Final Term Syllabus

Name			
IVAIIIC			

SUBJECT TEACHER: -

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(Unit-5 to 10)

CLASS: IV (P, D, S) SUBJECT: G-SCIENCE

MCQS

Unit 5: Environment

ck () the correct option	on.		
1.	Diversity means		?	
			c. competition	d. desert
2.	Humans visit other	habitats to	•	
	a. Find food	b. find air	c. find shelter	d. find sunlight
3.	If people who lived	before us had cu	ut down trees, the res	ult would be:
	a. No fresh air to br	eathe.		
	b. No place for bird	s to live.		
	c. No enough wood	to build houses.		
	d. All of the above.			
4.	Conservation mean	s:		
	a. Polluting air b	. polluting water	c. protecting environm	ent d. minerals
5.	Which is a natural	resources ?		
	a. Sunlight	b. electricity	c. medicines	d. plastic
6.	Which is not a natu	ural resources?		
	a. Water	b. electricity	c. wind	d. gas
7.	Which natural reso	urce is used to m	ake clothes?	
	a. Water	b. coal	c. trees and plant	s d. wood
8.	Plants need	to grow.		
		_	c. sunlight	d. all of them
9.	Which one of the fo	ollowing is a rene	ewable energy resource	:e?
			c The sun	

	10.	Coal, oil and gas a	re	_ energy resources.	
		a. renewable	b. non-renewable	c. man-made	d. none of them
			6: Matter and M	laterials	
	_) the correct optic			
1.			r doesn't have col	our or shape but m	ay have smell?
		Solid			
		Material			
		Gas			
		Solid and gas			
2.			tter is/are able to fl	ow?	
		Solid and liquid			
		Liquid and gas			
		Gas			
_		Liquid			
3.		e tiniest form of m	atter is known as:		
		An electron			
		An atom			
		A molecule			
	d.	A nucleus			
4.	Th	e nucleus of an ato	om contains:		
	a.	Electrons and proto	ons		
	b.	Liquids and gases			
	C.	Matter and materia	ıl		
	d.	Protons and neutro	ons		
5.	W	here in the atom is	the nucleus located	! ?	
	a.	The top			
	b.	The center			
	C.	The right			
		The left			
6.	A	water molecule is n	nade up of:		
	a.	Two hydrogen and	two oxygen atoms		
	b.	One hydrogen and	one oxygen atom		
	c.	One hydrogen and	two oxygen atoms		
		Two hydrogen and			
7.	Pa	rticles in a liquid h	ave to	move around.	
	a.	No room			

	b.	Space			
		Material			
	d.	No molecules			
8.	W	hy are solids no	ot able to change th	eir shape?	
	a.	Their particles of	can move freely.		
	b.	Their particles a	are packed tightly to	gether.	
	c.	Their particles a	are packed loosely to	gether.	
	d.	Their particles h	nave a lot of space.		
9.	Н	ow does an ice o	cube change to wat	er?	
	a.	Heating			
	b.	Boiling			
	c.	Stirring			
	d.	Cooling			
10	.A	solution is a mi	xture in which solic	l material in li	quid.
	a.	Separate	b. dissolve	c. do not dissolve	d. mixtu
₽ ≗	l. <i>(</i>		it 7: Heat, Ligh	t and Sound	
Γic	k (Uni		t and Sound	
			option.	t and Sound	
	A) the correct	option.	t and Sound	
	A a.) the correct thermometer m	option.	t and Sound	
	A a. b.) the correct thermometer m Sound	option.	t and Sound	
	A a. b. c.) the correct thermometer m Sound Light	option.	t and Sound	
1.	A a. b. c. d.) the correct thermometer m Sound Light Electricity Temperature	option.		
1.	a. b. c. d.) the correct thermometer m Sound Light Electricity Temperature	option. neasures:		
1.	a. b. c. d. W) the correct thermometer m Sound Light Electricity Temperature hich of these is	option. neasures:		
1.	a. b. c. d. w a. b.) the correct thermometer m Sound Light Electricity Temperature hich of these is Newton	option. neasures:		
1.	a. b. d. W a. b. c.) the correct thermometer m Sound Light Electricity Temperature hich of these is Newton Celsius	option. neasures:		
 2. 	a. b. c. d. b. c. d.) the correct thermometer m Sound Light Electricity Temperature hich of these is Newton Celsius Kelvin Fahrenheit	option. neasures:	sure temperature?	
 2. 	a. b. d. b. c. d. W) the correct thermometer m Sound Light Electricity Temperature hich of these is Newton Celsius Kelvin Fahrenheit	option. neasures: not a scale to meas	sure temperature?	
 2. 	a. b. c. d. b. c. d. W a. b. c. d.	thermometer measound Light Electricity Temperature hich of these is Newton Celsius Kelvin Fahrenheit ater boils at	option. neasures: not a scale to meas	sure temperature?	
 2. 	a. b. c. d. w. a. b. b.	thermometer measured by the correct thermometer measured by the council of the control of the co	option. neasures: not a scale to meas	sure temperature?	
 2. 	a. b. c. d. w a. b. c. d. c.	thermometer measound Light Electricity Temperature hich of these is Newton Celsius Kelvin Fahrenheit ater boils at	option. neasures: not a scale to meas	sure temperature?	
 2. 3. 	a. b. c. d. w. a. b. c. d. c. d.	thermometer measured by the correct thermometer measured by the councillation of the councill	option. neasures: not a scale to meas	sure temperature? s scale.	

- b. The molecules start to create space.
- c. The molecules are packed together.
- d. None of the above

5. Which of the following are needed to form a shadow?

- a. A light source, a translucent object and a background.
- b. A light source and a background.
- c. A translucent and an opaque object
- d. A light source, an opaque object, and a background.

6. Shadows cause eclipses which are formed by:

- a. Transparent objects
- b. Translucent objects
- c. Opaque objects
- d. All of the above

7. Sound waves are measured by their:

- a. Energy
- b. Temperature
- c. Length
- d. Weight

8. Sound travels fastest through:

- a. Solids
- b. Crests
- c. Gases
- d. Vibrations

9. Sound intensity is measured on the:

- a. Kelvin scale
- b. Fahrenheit scale
- c. Decibel scale
- d. Celsius scale

10. Which of the following is the unit of sound frequency?

- a. Decibels
- b. Hertz
- c. Kilograms
- **d.** Degree

Unit: 8 force, tools and machines

1 .	Boats are able	e to float in water due	to:	
á	a. Friction	b. air resistance	c. buoyancy	d. gravity
2.	ha	s the most powerful f	orce of gravity.	
ć	a. The sun	b. the earth	c. the moon	d. the solar
	system			
3.	Which surfac	e provide greatest fric	ction.	
ć	a. Glass	b. marble	c. tiles	d. grass
4.	Air resistance	works when:		
ć	a. Air speeds	the object b. air slo	ws the objects c. a	ir twists the object
	d. Air move	es the object.		
5.	The arm of a l	ever is attached to a/	an	
ć	a. Machine	b. load d. f	ulcrum d. effo	rt
6. I	Inclined plane	es are used to move ol	bjects:	
a	. Up and dov	vn stairs	c. from a rough	to a smoother leve
b	. from lower	to a higher level	d. none of the a	above
7. \	Which of the	following is a wedge?		
a	. Knife	b. wheelbarrow	c. saw	d. chisel
8. I	Mark the state	ements that are not co	orrect about a screv	v.
a. it	is used to hole	d objects in plane	b. it is used to cut o	bjects
t is u	sed to lift obje	ects	d. It is a type of pla	ne
9. V	Vhich one of t	the following is an exa	ample of a wheel ar	nd axle?
a.	a cricket bat	b. a skateboard	c. a pair of scisso	ors d. an axe
Incli	ined planes ar	e useful for:		
a . fix	ing an object	b. easing the m	novement of the phy	sically handicapped
c. cu	tting cakes	d. Growing cr	ops	

Unit 9: Electricity and Magnetism

Tick () the correct option.

1. When does an electric current occur?

- a. When electrons move between the molecules in opposite direction
- b. When electrons move between the atoms in the same direction
- c. When electrons move between molecules in different directions
- d. When electrons move between atoms in different directions

2.	Current travels along:
	a. Strings
	b. Ropes
	c. Wires
	d. Poles
3.	Static electricity is produced when two objects rub together and electrons
	jump from one object to the other due to :
	a. Current
	b. Resistance
	c. Friction
	d. Gravity
4.	Which of the following do not use electricity?
	a. A car
	b. A candle
	c. A toaster
	d. A television
5 .	Magnetism involves:
	a. Forces
	b. Attraction
	c. Repulsion
	d. A,b and c
6.	The magnetic field is a /an area around a magnet.
	a. Wet
	b. Invisible
	c. Visible
	d. Colourful
7.	Magnetic fields are strongest around:
	a. The entire magnet
	b. The center of a magnet
	c. A magnetic object
	d. The poles of a magnet
8.	The magnetic field becomes when electricity is passed throug
	a magnet.
	a. Shorter
	b. Thinner
	c. Larger
	d. Weaker

9. An advantage of electromagnetism is that :

- a. magnetism is produced only when needed
- b. magnetism is produced all the time
- c. magnetism is produced in a large quantity
- d. magnetism is produced with strong currents.

10. Which of the following do not use electromagnets?

- a. Hair dryer
- b. Microwave
- c. Television
- d. Saucepan

Unit 10: The Solar System

1.	A s	sphere is a soli	id:			
	a.	Rectangle	b. circle	c. Triangle	d. oval	
2.	Th	e revolving m	ovement of the eart	h measures a		
	a.	Day	b. month	c. year	d. none of these	
3.	Tł	ne earth is con	tinuously spinning o	on its:		
	a.	Axis	b. Poles	c. orbits	d. all of these	
4.	W	e get our	_ because of the way	the earth tilts.		
	a.	Weather	b. seasons	c. Rain	d. storm	
5.	Du	ıring their	oles get no sunli	ght.		
	a.	Summer	b. autumn	c. winter	d. spring	
6.	Sp	ace is a	•			
	a.	Nebulae	b. galaxy	c. vacuum	d. none of these	
7.	Αı	nebula is a clo	ud of dust and	•		
	a.	Solid	b. liquid	c. gas	d. all of these	
8.	Mo	ost of nebulae	contain a lot of	:		
	a.	Hydrogen	b. oxygen	c. Carbon	d. iron	
9.	Our earth exists in a galaxy known as					
	a.	Black hole	b. Milky Way	c. ozone	d. none of these	
10	.Th	ere are	types of galaxies.			
	a.	One	b. two	c. three	d. four	

(Unit- 5 to 10)

Class: IV (P, D, S) Subjects: G-Science

Question Answers

Unit: 5 Environment

Give short answers.

1. What is a habitat?

Ans: A habitat is a place where living things (plant or animal) lives.

2. What do all living things need to survive?

Ans: All living things need.

Food, water, shelter and a safe environment for young.

3. What is meant by diversity?

Ans: Diversity means differences. The more differences in a habitat the more types of animals and plants can live in it.

4. Why do humans visit other habitat?

Ans: Humans visit other habitats like river, streams, oceans to find food.

5. What is meant by conservation?

Ans: Conservation means to protect and manage the earth's natural resources for future generations.

6. What are natural resources?

Ans: Natural resources are things that are created naturally, without human help.

7. Into how many groups natural resources are divided?

Ans: Natural resources are divided into two groups.

1. Renewable 2. Non- renewable

Long Questions

Q8. Select any three natural resources and explain how they are used? Ans: some natural resources are explained below.

1. Water: Humans use water for Drinking, washing, transport.

2. Minerals: Humans use minerals for:
Building, growing plants, energy resources, decoration.

3. Trees and plants: Humans use trees and plants for: Building, food, medicines, clothing, decoration

Q2. What is the difference between renewable and non renewable resources? Give three examples of each type.

1. Renewable resources:

These resources will not run out.

Humans can use them as much as they like.

Examples: wind, sun energy, trees and plants.

2. Non renewable resources:

These resources can only be used once.

Once they all are used, there will be no more of them.

Examples: oil, coal, minerals.

Chapter 6: Matter and Materials

Give short answers.

1. What are the three states of matter?

Ans: The three states of matter are Solid, liquid, gas

2. Define atom?

Ans: Atoms are tiny particles. All matter is made up of atoms.

3. What is an atom made up of?

Ans: An atom has a nucleus .The nucleus has protons and neutrons. outside the nucleus electrons are present.

4. Draw a structure of an atom?

Ans: (diagram) page 42

5. Define molecule?

Ans: A molecule is made up of two or more atoms.

6. How can we change the states of a matter?

Ans: We can do so by changing it temperature.

Ice__heat ____ water ____heat ___steam

7. Why does an ice cube melt in your hand?

Ans: This is because of the heat of our hands.

8. What are the types of mixtures?

Ans: Mixtures are of two types.

- a. Solution
- b. suspension
- 9. Define suspension with one example?

Ans: A mixture in which the materials separate from each other on standing.

Example: soil in water.

10. Define solution with one example?

Ans: A mixture in which the solid material dissolves in the liquid.

They cannot be separated.

Example: sugar in water.

Long questions

1. Discuss and draw how particles packed within solid, liquid and gas are?

Ans: Solid:

- 1. It has a definite shape.
- 2. It has a definite mass.
- 3. It also has a volume.
- 4. Particles are tightly packed.
- 5. Example: book, pen, bed.

Liquid:

- 1. Liquid doesn't have a definite shape.
- 2. It has a definite mass.
- 3. It has a definite volume.
- 4. It takes the shape of the container.
- 5. Example: water, milk, blood.

Gas:

1. Gas does not have a definite shape.

- 2. It does not have a definite mass.
- 3. It does not have a definite volume.
- 4. Particles are separated with no regular movement.
- 5. Example: oxygen, carbon dioxide, air.

Draw diagrams from page 43

Chapter: 7 Heat, Light and sound

Give short answers

1. How is heat measured?

Ans: Heat is measured by a thermometer.

2. What three scales are used for measuring temperature?

Ans: The three scales are

Celsius

Fahrenheit

Kelvin

3. What is the boiling point of water on Celsius and Fahrenheit scales?

Ans: Water boils at 100 C and 212 F.

4. What is the freezing point of water on Celsius and Fahrenheit scales?

Ans: Water freezes at 0C and 32 F.

5. Which liquid is used in a thermometer?

Ans: Mercury.

6. How did two main scales for measuring temperature get their names?

Ans: The Celsius scale is named after a scientist called Anders Celsius.

The Fahrenheit scale is named after a scientist called Daniel Gabriel

Fahrenheit.

7. When is Kelvin scale used?

Ans: It is used to measure extremely cold and hot temperatures.

8. How is a shadow formed?

Ans: A shadow is formed when light is blocked by an object.

9. Why do opaque objects form a clear shadow?

Ans: This is because light cannot pass through them. Example human, chair.

10. How is sound measured?

Ans: The sound is measured in decibels.

11. What is meant by frequency of sound?

Ans. Frequency is number of waves produced in a second.

12. How is frequency measured?

Ans: Frequency is measured in units called Hertz.

13. How does an eclipse take place?

Ans : when the sun, the moon and the earth come in straight line ,an eclipse takes place.

LONG QUESTIONS

1. What determines the size and position of shadow?

Ans: The size and position of the shadow change according to the light source.

- a. If an object is closer to the light source, the shadow gets bigger.
- b. If an object is moved away from the light source, the shadow gets smaller.
- 2. How does a thermometer work? Draw a diagram to explain your answer?

Ans: Inside the glass of the thermometer a liquid mercury is present. When the liquid is cold, its molecules stay close together and near to the bottom .

When the temperature increases, the moelcules of the liquid move up to the thermometer.

The hotter the temperature ,the higher the liquid travels up the tubes.

CHAPTER: 8 FORCE, TOOLS AND MACHINES

Short questions:

1. What is force?

Ans: A force is push or pull. It makes things move.

2. What is buoyancy?

Ans: It is an upward force that works in water.

3. Why do some things sink?

Ans: Some things sink because their weight is more than the total weight of the water.

4. Why do some things float?

Ans: Objects float because of buoyancy.

5. What is gravity?

Ans: Gravity is a force that pulls every thing towards the earth.

6. Why is it difficult to walk on a slippery floor?

Ans: This is due to less friction.

7. What is a lever?

Ans :A lever is a simple machine that can lift objects with little effort.

8. What is inclined plane?

Ans: An inclined plane is a flat surface that joins one level with a higher level.

9. What is wedge? Explain with the help of example?

Ans :A wedge is two inclined planes joined together. It is used to split or cut things apart. Examples are chisel and axe.

10. What type of simple machine is the door knob?

Ans: A door knob is a wheel and axle.

Knob= wheel rest part= axle

11. Have you ever seen a crane lift a heavy load? What simple machine it is based on?

Ans: A crane is a type of pulley.

Long questions

Q1. What is friction? Give two examples from daily life of how friction helps us.

Ans: Friction:

It is a force which slows down or stops the objects from moving.

Examples:

- a. Friction appears when brake pads on a bike rub against the tyre to slow or stop the bike.
- b. A cricket ball rolls along grass and slowly stops due to friction.

Q2. What is air resistance? Give two examples from daily life where its effect is used?

Ans : Air resistance:

It is a force which slows down the objects moving through air.

Examples:

- a. It is harder to walk with the wind coming towards us due to air resistance.
- b. A parachutist falls slowly due to air friction.

Chapter: 9 Electricity and Magnetism

Give short answer.

1. How is electricity created?

Ans: It is created by the movement of electrons.

2. What is static electricity? How it is produced.

Ans: The electricity that stays at one place. It is produced by rubbing two objects together.

3. What is speed of electricity?

Ans: Electricity travels at the speed of light which is 299,792meters per second.

4. Which animal produces electricity naturally?

Ans: Electric eel produces electricity naturally.

5. What is magnetic field?

Ans: It is an invisible area around a magnet .it also has a magnetic power.

6. Where are magnetic fields stronger?

Ans: Around the poles.

7. When does the magnetic field of an electromagnet get smaller or larger?

Ans: When the electricity is passing, the magnetic field becomes larger.

When the electricity is not passing, the magnetic field becomes smaller.

8. What is the main benefit of electromagnets?

Ans: Power is only generated when it is needed.

9. Make a list of electrical items in our schools and houses?

Ans: fans, lights, heaters, ACs, fridge, computers etc

Long Question

1. What are electromagnets? What are their advantages?

Ans: Electromagnets:

These magnets work through a combination of electricity and magnetism.

Advantages:

When the current is passing, the magnet works.

When the current is not passing, the magnet stops working.

Power is only generated when it is needed.

(daigram)

Chapter: 10 The Solar System

Short questions:

1. What is the shape of earth?

Ans: Our earth is sphere in shape.

2. In how much time the earth orbits around the sun?

Ans: It takes the earth 365 days, 48 minutes and 46 seconds to orbit around the sun.

3. What is the axis of the earth?

Ans: It is an imaginary line passing through the NORTH and SOUTH poles.

4. How do day and night occur?

Ans: The spinning movement of the earth gives us night and day.

5. Why do people near the equator spin the fastest?

Ans: This is because of the earth's shape and its spinning movement.

6. What is called a vacuum?

Ans: A vacuum is an area that contains no matter.

7. Can we see nebulae from earth?

Ans: No, because they don't give out light.

8. Name the types of galaxies?

Ans: Three types of galaxies are

- a. Spiral galaxies
- b. Elliptical galaxies
- c. Irregular galaxies

9. In which galaxy does our earth exist?

Ans: Our earth exists in galaxy known as the Milky Way.

LONG QUESTIONS

Q1. How are the seasons caused? Explain with the help of a diagram.

Ans: When the earth tilts on its axis, some parts of the earth are closer to the sun at certain times of the year, and further away at other times of the year.

This is how we get the seasons.

(Diagram is included)

Q2. Write short notes on

A. Space:

Space is the area in which planets, stars, moons and other bodies are present. Space is a vacuum. It also has dust and gases.

B. Nebulae:

A nebula is a cloud of dust in space. Most of them contain a lot of hydrogen gas. Some nebulae are died stars. They don't give their own light.

C. Galaxies:

These are huge areas of space that contain stars, planets, dust and gas. There are three types of galaxies

a. Spiral galaxies b. elliptical galaxies c. irregular galaxies
 Our earth and solar system are present in a galaxy known as the MILKY WAY.