# APPENDICES

#### APPENDIX A

## ACHIEVEMENT TEST

MM: 30

# Science Class test

Class:	Date:
Name:	Period:
Q1) Fill in the Blanks:	(10)
<ul> <li>a)</li></ul>	asindustries, hospitals etc.
Q2) Choose the correct option:	(5)
1. Bar screen is used to remove things from water	
<ul><li>(a) Napkins (b) bacteria (c) sand (d) none of the above</li><li>2. World water day is celebrated on</li><li>(a) 22 march (b) 27 march (c) 4 April (d) 24 April</li></ul>	Q-421
<ol><li>Transport system that carries sewage from the point of being point of disposal.</li></ol>	ng produced to the
(a) landfills (b) filtration (c) sewerage (d) A and B	
4 Things that harden and block the pines	

	(a) oil and fats (b) chlorine (c) ozone (d) microbes	
5.	The gas is produced which is used as a source of energy	
	(a) nitrogen (b) oxygen (c) biogas (d) none of above	
O3) N	Jame the followings:	(10)
a)		()
b)	Name two disease caused by polluted water	
c)	Name two organic impurities suspended in water	
d)	Name two inorganic impurities suspended in water	
e)	Name two chemicals which kills microbes	
Q4) v	what steps will you choose to clean the environment and why?	(5)

(3)

#### **ACHIEVEMENT TEST 2**

# Science Class Test

Class: .		Date:
Name:		Period:
Q1) M	ark 'T' if the statement is true and 'F' if it is false.	(5)
b) c) d)	Water is not essential for all living being. ( ) 55% of drinking water is available on the earth. ( ) Water shortage is a problem faced only by people living in rural Water from rivers is the only source for irrigation in the field. ( Rain is the ultimate source of water. ( )	
Q2) Fi	ill in the Blanks.	(9)
a)	People obtain ground water through and	
b)	Three forms of water are	And
	The process of seeping of water into the ground is called  The ground water is stored between layer of hard rock below the	
f) g)	The water found below the water table is called	
i)		or in the fields.
Q3) wł	hat are the roles you can play to conserve water.	(3)

Q4) Draw a Water Cycle.

#### APPENDIX B

#### LESSON PLANS

#### Planning of lesson 1

Class- VII

Subject- Science

Teaching methods-multimedia teaching approach

#### Specific objective-

- 1. student will be able to know the sources of waste water
- 2. student will be able to know the sources of water pollution

Teaching aids-computer, projector and multimedia program.

Previous knowledge-children have basic knowledge about waste water

Teaching points	Teaching strategies	Conclusion
Waste water Sources of waste water	Teachers divided the students into groups and show them some pictures of dirty water with the help	The water from drains, sinks, toilets, laundries are known as waste water
Sources of water pollution	of diffy water with the help of projector and ask the student to observe the pictures.	It creates the water
	Then teacher ask the	pollution
	student what they have observed	Drinking polluted water causes many diseases and
	Then students discuss and give the different answers.	also harmful to aquatic animals
	That the water given in this picture is not pure	
	That water is not fit for drinking purpose.	
	Drinking impure water causes many diseases. Then teacher ask the	

sources of waste water Students list out some sources like drains, sinks, toilets, laundries etc

Then teacher ask the about the pollution. Students now engage to find the answer.

And give the answers of different types of pollution like air pollution, land pollution and water pollution
Then teacher ask to list out some sources of water pollution student give the answer like waste from home, industries and chemicals from factories get disposed into the water and water become contaminated.

**Recapitulation** — What is waste water, water pollution, sources of water pollution and waste water?

**Evaluation**-given some activities, some oral questions for student which is related to meaning of waste water, what are the effects of waste water?

Home assignment-students give the examples of the use of clean water.

Students give the PPT of the pollution in groups.

Class- VII

Subject-Science

Teaching methods-multimedia teaching approach

#### Specific objective-

- 1. student will be able to know the meaning of sewage
- 2. student will be able to know that swage consist of many dissolved impurities

Teaching aids-computer, projector and multimedia program.

Previous knowledge-children have basic knowledge about waste water and drain water

Teaching points	Teaching strategies	Conclusion
Sewage	Teachers divided the	The waste water from
Contamination	students into groups and show them some pictures of dirty water with the help	drains, sinks, toilets, laundries are known as sewage water
Different types of	of projector and ask the	
contamination	student to observe the pictures.	
Examples of different types of	_	It creates the water
contamination	Then teacher ask the student what they have observed	pollution
	That water is not fit for drinking purpose.	Sewage water consist of many dissolved organic and inorganic impurities
	That water also called as sewage water. Why sewage water is black in color?	It causes disease like cholera, typhoid, dysentery etc.
	Student response that the sewage water do not have dissolved oxygen	
	Sewage water consists of	

carbon dioxide.

Sewage water consist of a mixture of dissolved solids, organic and inorganic impurities and disease causing bacteria.

Then teacher give the ppt of different type of things like human faeces, animal waste , nitrates, phosphates, metals, phosphorus etc.

Then teacher ask student to categories them into different the forms of impurities

Student response-human faeces is organic impurities and metal, phosphorus are inorganic impurities.

Recapitulation - sewage water, different forms of impurities present in sewage water

**Evaluation**-given some activities, some oral questions for student which is related to meaning of sewage water, what are the effects of sewage water? what are the impurities?

Home assignment-students give the examples of some more impurities with the help of internet

Students give the PPT of sewage water in groups.



Class- VII

Subject- Science

Teaching methods-multimedia teaching approach

**Specific objective-** student will be able to know the working of waste water treatment plant.

Teaching aids-computer, projector and multimedia program, audio video clipping of waste water treatment plant

Previous knowledge-children have basic knowledge about waste water and drain water

Teaching points	Teaching strategies	Conclusion
Treatment of polluted water	Teachers divided the students into groups and	The waste water can be pure with the help of
The working procedure of waste water treatment plant.	show them one video clipping of waste water treatment plant with the	waste water treatment
	help of projector and ask the student to observe the clipping	
	Then teacher ask the student what they have	
	Then students observed the different procedure	
	where the waste water passes like bar screen, scraper, water clarifier	
	aerator tank and chlorination tank	

Recapitulation - the working of waste water treatment plant

Evaluation-What is waste water treatment plant?

Home assignment- List out some water treatment plant in their city.

Class- VII

Subject- Science

Teaching methods-multimedia teaching approach

Specific objective- student will be able to understand the water cycle

**Teaching aids-**computer, projector and multimedia program, audio video clipping of water cycle

Previous knowledge-children have basic knowledge about the composition of water on earth

Teaching points	Teaching strategies	Conclusion
Water cycle	Teachers divided the students into groups and	The process of converting water into
Process of evaporation	show them one video clipping of water cycle	vapor is called evaporation, cooling
Process of condensation	with the help of projector and ask the	down of water vapor is known as condensation
Process of precipitation	student to observe the clipping	and again water come back into the earth surface in the form of
precipitation	Then teacher ask the student what they have observed.	rain and snow are called as precipitation.
surface	Then students observed that water gets evaporated,	
soil lake scean	Then condense and comes out again on earth surface in the form of rain.	

**Recapitulation** – water cycle, evaporation, condensation, precipitation

Evaluation-What is evaporation, condensation, precipitation?

Home assignment-student give PPT on water cycle in groups.

Class- VII

Subject- Science

Teaching methods-multimedia teaching approach

**Specific objective-** student will be able to understand how they can do better housekeeping practice

Teaching aids- computer, projector, multimedia program, and animated pictures.

Previous knowledge-children have basic knowledge about the recycle of waste material

Teaching points	Teaching strategies	Conclusion
Better housekeeping practice	Teachers divided the students into groups and	The waste material can be recycle and re use if
RECYCLE	show them some picture	separate properly
ET = IT	that where we have to	
	dump a waste material	
Godo con Loone, People Branc Your E-Wester to Godowill.	help of projector and	
RENEW AT AN CHARGE TO YOUT	ask the student to	
C 25-20	observe the picture	
REUSE	Then teacher ask the	
YOUR E-WASTE PROVIDES JIB TRAINING, GIPPLOWNERS AND THE TOOLS TO ACHEM INDIVIDUAL SUCCESS TO PEDPLE WITH DISABILITIES AND OTHER BARRIERS.	student what they have	
DISPUTING AND DITTER BRITISHS.	observed.	
THE SEE	Student response that it	
	is a responsibility of	
	every citizen that	
	disposed waste material	
	in a proper way so that	
	it can be recycle and	
	reuse	

Recapitulation - disposal of waste material, recycle and reuse

Evaluation-What is soluble and insoluble waste material?

Home assignment- List out various different home waste materials for recycles.



Class- VII

Subject-Science

Teaching methods-multimedia teaching approach

Specific objective- student will be able to understand the use of human waste

Teaching aids- multimedia program, audio video clipping vermicomposting

Previous knowledge-children have basic knowledge about that human waste is good for agriculture

Teaching points	Teaching strategies	Conclusion
vermicomposting	Teacher show some picture of vermicomposting and	Human waste is converted into vermi cakes with the
	video clipping also and ask the student what is this and where it can be use?	help of earthworms which is good for agriculture as it can be a nature waste
	Student response this process is called vermicomposting that it is good for agriculture and increase the fertility of soil	
	It can be done with the help earthworms. By this process the human and	
	animal waste can be utilize properly.	

Recapitulation - vermicomposting

Evaluation- What is vermicomposting what it's utility?

Home assignment- What are the advantages of natural fertilizer?

Class- VII

Subject-Science

Teaching methods-multimedia teaching approach

Specific objective- student will be able to understand the harmful effect of poor sanitation

Teaching aids- multimedia program, pictures of poor sanitation

Previous knowledge-children have basic knowledge about the causes of diseases

Teaching points	Teaching strategies	Conclusion
Harmful effect of poor sanitation	Teacher show some picture of dirty water and place along with video clipping and ask the student about the pictures and video  Student response that it is poor sanitation and contaminated drinking water is the cause of a large number of diseases.  Teacher asks how can we protect our self by all these diseases.  Student response that to clean our home and our environment	Poor sanitation causes harmful disease

Recapitulation -poor sanitation and diseases

Evaluation- What is sanitation?

Home assignment- List out some diseases caused by waste water.

Class- VII

Subject- Science

Teaching methods-multimedia teaching approach

**Specific objective-** student will be able to understand water management and rain water harvesting

Teaching aids- multimedia program, pictures of rain water harvesting and video clipping

Previous knowledge-children have basic knowledge about the uses of water

Teaching points	Teaching strategies	Conclusion
Water management Rain water harvesting  Gutter Filter Pump Tank for rainwater	Teacher show some picture that how to conserve water for further use for that purpose everybody should adopt the methods of rain water harvesting, and show video clipping and ask the student about the pictures and video  Student response that with the help of pipe, filter, pump etc. We can conserve water at our home we can make a tank for rain water and manage the rain water.	Rain water harvesting is use to conserve rain water for further use

Recapitulation -water management and rain water harvesting

Evaluation- how you conserve rain water?

Home assignment- what are the advantage of rain water harvesting.

Class- VII

Subject- Science

Teaching methods-multimedia teaching approach

Specific objective- student will be able to understand the concept of drip irrigation

Teaching aids- multimedia program, pictures of drip irrigation and video clipping

Previous knowledge-children have basic knowledge about the irrigation

Teaching points	Teaching strategies	Conclusion
Drip irrigation	Teacher show some picture that how to conserve water for further use in agricultural field for that purpose farmer adopt the methods drip irrigation, show video clipping and ask the student about the pictures and video  Student response that with the help of drip irrigation farmers can water large fields with minimum amount of water.	Drip irrigation is a technique of watering plants by making use of narrow tubing which deliver water directly at the base of the plant

Recapitulation -drip irrigation

Evaluation- what is drip irrigation?

Home assignment- what are the advantage of drip irrigation.