16

HARVESTING RAIN

A. WARMER

Do you like to play in the rain? List the things which you do in rainwater. Have you ever seen people collecting rain water? How do they collect it?

Have you ever collected rainwater? My family used to collect rainwater in buckets and the water was put to good use. Collecting water during the June showers, especially after facing severe water shortage all summer, was a thrilling experience.

My adventure with rainwater never stopped there. While teaching at a school in the Maldives I saw rainwater harvesting. What is rainwater harvesting? It is a method of collecting rainwater for domestic purposes.

The Maldives is an archipelago in southern Asia made up of a group of 1,190 islands. The islands receive rainfall from the North East Monsoon and the South West Monsoon. The rains are unpredictable and there is no fresh water available. It is difficult to get groundwater and it is not fit for drinking. The people have been taught to set up a good system of rainwater harvesting.

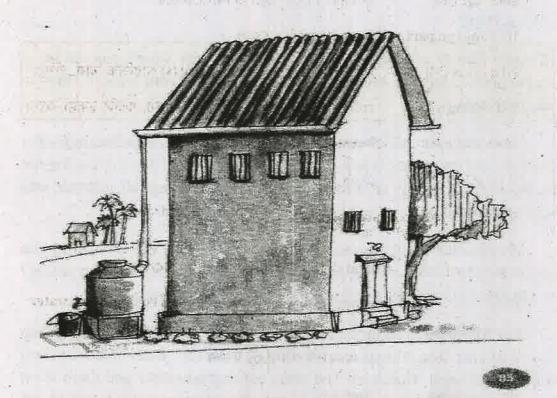
Each newly built house is fitted with slopping roofs made of corrugated iron. This is ideal for collecting rainwater. Gutters are nailed to the base of the roof and the sealed off at one end. The other end of the gutter has a pipe that leads to a huge tank made of cement. The pipe is extended in such a way as to deliver the water into the tank. The tank has a tap at its base. Some houses have a system for locking the tap.

Once the tank in the house where I lived ran dry, I didn't have to worry. The school had plenty of water all through the year. Can you guess why? The area of the school roof being extremely large, the amount of





water collected is greater. After a long dry spell one night there was a heavy downpour.



I was delighted because that meant that my tank was filling up. But the next morning the tank was empty! The early rains of the season are allowed to flow to waste so as to clean the roof and the tank before the water is stored! I had never thought of that.

People all over the world are harvesting rainwater. Yet in our country large amounts of rainwater are lost. Its use should be encouraged at the family and school level. We need rainwater. It is abundant, safe and very sweet and pleasant to drink.





GLOSSARY AND NOTES

shortage (n):

not having enough अपर्याप्त, अभाव

The state of the s

thrilling (pr. part adj): very happy अतिप्रसन्न

adventure (n):

an act of doing unusual thing (s) साहसिक कार्य, रोमांच

harvesting (n):

collecting, storing yields अन्न संग्रह, फसल इकड्ठा करना

domestic (adj):

household घरेलू

archipelago (n):

group of islands टापुओं का समूह

groundwater (n):

water that comes from wells and springs

जल स्रोत, भूजल

corrugated (adj):

iron sheets made into folds नालीदार

gutters (n);

a long pipe fixed at the edge of a roof to carry water

नाला

delighted (adj):

pleased/feel happy प्रसन्न

downpour (n):

rain वर्षा

abundant (adj):

plenty, enough पर्याप्त

severe (adj):

too much बहुत अधिक

B. LET'S COMPREHEND

B.1. THINK AND TELL

B.1.1. Answer the following questions orally:

- 1. When is collecting water a very thrilling experience?
- 2. When does the rainwater harvesting become useful and necessary?
 - 3. What is a necessary step before collecting rain water?







B.1. 2. State whether the following statements are true or false:

- 1. The islands of Maldives receive rainfall from North West monsoon.
- 2. The people in Maldives depend entirely on rainwater harvesting for their needs for water.
- 3. All houses in Maldives have the sloping roofs made of corrugated iron.
 - 4. The author's school had water round the year.
 - 5. Rainwater is highly dependable.

B.2. THINKAND WRITE

B.2.1 Given below are the steps for harvesting rain in Maldives. But they are not in proper order. Put them in proper order:

- 1. The tank has a tap at its base.
- 2. Each newly built house is fitted with sloping roofs made of corrugated iron.
- 3. Some houses have a system for locking the tap.
- 4. This is ideal for collecting rainwater.
- 5. The pipe is extended in such a way as to deliver the water into tank.
- 6. Gutters are nailed to the base of the roof and sealed off at one end.
- 7. The other end of gutter has a pipe that leads to a huge tank made of cement.

B.2.2. Answer each of the following questions in about 30 words:

- 1. Groundwater is becoming scarce and still its uses are many in our daily life. How can we gather and save water?
- 2. All of us enjoy rain. We get drenched in it. We play with the paper boats. What was the author's experience of collecting rain water?





- 3. Our parents and teachers instruct us not to drench ourselves in the 1st rain shower. Why according to the author the early rain water in the season should be allowed to go a waste?
- 4. Huge amount of rainwater is lost in our country. It is the wastage of natural resource. Do you agree with this view? Give reasons.

C. WORD STUDY

C.1. Correct the following words to make them meaningful:

Experiance, corragated, dilighted, incouraged, abundent

C.2. Match the words in A with their meanings in B.

A B

huge to establish

hailed abundant

set up very big

sealed up praised

plenty completely closed from all sides

C.3. Pick out from the text the words which are opposite in meaning to the following words:

plenty

wet

empty

always

·lost



C.4. Find out the sentences in which the following words have been used in the lesson. Then use these words in your own sentences.

shortage thrilling experience groundwater

D. GRAMMAR

D.1. Participles used as adjectives

Look at the following sentence:

servere water shortage all summer was a thrilling experience.

Here, 'thrilling' is a present participle (verb + -ing) used as an adjective. The past participle (verb + ed or -en) is also used as an adjective; e.g., 'broken leg'. Look at some more examples:

Present participles	Past participles
We saw an entertaining movie	I kept the tickets in sealed envelopes.
Robot is an exciting movie.	The maid was given a burnt chapati.
Robot has amazing visuals.	He sat on a broken chair.

In some cases, both the present participle and the past participle of the same verb can be used as adjectives. For example:

amazing	amazed	frightening	frightened
boring	bored	interesting	interested
exciting	excited	surprising	surprised
convincing	convinced	terrifying	terrified
tiring	tired	disappointing	disappointed



161



Past participles, when used as adjectives, can be found in phrases such as the following:

a broken leg

a known fact

a closed door

a locked door

a crowded bus

an injured soldier

an air-conditioned building

a broken promise

a married woman

an educated person

a used car

a sealed envelope

An adverb can be placed before past participle adjectives.

a well known fact

a well educated person,

a well behaved child

a slightly used book

a closely watched experiment

-iclosely related languages

Secretary principality

a well dressed woman

a highly paid actor

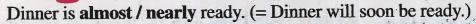
D.2. Difference between almost and nearly, lost season office at

Almost and nearly have similar meanings. They are both used to express ideas connected with progress, measurement or counting.

He slipped and almost fell to the ground.

OR

He slipped and nearly fell to the ground.



Sometimes almost shows more 'nearness' than nearly.

Compare:

It is nearly 12 o'clock. (= perhaps 11.45)

It is almost 12 o'clock. (= perhaps 11.55)

Nearly can be used with very and pretty. Almost cannot be used with very and pretty.

I have pretty nearly finished. (NOT I have pretty almost finished.)

Nearly suggests progress towards a goal. Almost suggests ideas such as similarity.

He is almost like a father to me. (NOT He is nearly like a father to me.)

She has got a good accent. She almost sounds American.

Almost is never used with a negative: you could say "A is almost as good as B" or "A is nearly as good as B", but you can't say "A is almost not as good as B".

Nearly is not normally used before negative words like never, nobody, nothing, any etc. Instead we use almost or hardly with ever, anybody, anything etc.

The speaker said almost nothing.

OR

The speaker said hardly anything. (= The speaker said only a few words of little importance.) [NOT The speaker said nearly nothing.]

Almost nobody came.

OR

Hardly anybody came. (NOT Nearly nobody came.)



movie.

163



(frighten)

D.2.1	. Fill in the blanks with the correct		
	the verb given in brackets. One h	as been done for you	
Ex:	I was bored (bore) during the movie	and fell asleep.	
	1. After washing clothes for two ho	ours, I felt	_(tire).
-	2. Last night I saw an	(interest) movie.	tom and

4. My friend was _____ (surprise) when he saw people

3. I didn't enjoy watching Godzilla. It was a_

wearing sweaters in June in Shimla.

- 5. Learning a new language is sometimes very ______ (frustrate).
- 6. The children were _____ (excite) to see the tigers at the circus.
- D.2.2. Fill in the blanks with an appropriate past participle. One has been done for you.

Ex: I can't go to the library because the door is <u>locked</u>.

- 1. Where is the Golghar ______
- 2. Last night I slept only for five hours. I'm so _____today.

D.3. Sequence of tenses

If one clause follows another, its verb takes form according to certain rules. This is what we call sequence of tenses. The term sequence of tenses refers to the systematic way in which we alter the speaker's verb tenses to make clear that all events, past or future, are not simultaneous.

For example: The speaker says, "I am tired of hearing that song."

We correctly report it: He said he was tired of hearing the song.

Here, changing the tense of the speaker from present to simple past constitutes about most of the process we call sequence of tenses.





We do not say: He says he is tired of hearing the song.

The source says: "The weather is bad."

We then would say/write: He said the weather was bad.

Some rules regarding the sequence of tenses are:

- 1. If the main clause of a complex sentence is in the present tense or future tense, the verb of the dependent clause may take any form any tense. For example,
- (i) I know that he is a good singer. (present tense after a present tense)
- (ii) I know that Anshu will help me. (future tense after a present tense)
- (iii) I will see whether Sabiha finished her homework or not. (past tense after a future tense)
- 2. When the independent clause is in the past tense, the dependent clause must also be in the past tense. For example,
 - (i) Anu asked me why I was late. (past tense after a past tense)
 - (ii) Aslam told me that he was very tired. (past tense after a past tense)
 - (iii) Ayesha replied that she had missed her train. (past tense after a past tense)
- 3. If the main clause is in the past tense, the dependent clause can be in the present tense only if it states a universal truth. For example,
 - (i) My mother taught me that honesty is the best policy.
 - (ii) We learnt in school that the earth is round in shape.



166



Tense in Independent Clause	Purpose of Dependent Clause/ Tense in Dependent Clause	Example(s)	
	To show same-time action, use the present tense.	I am eager to see the zoo because I love animals.	
Simple Present	To show earlier action, use past tense.	I know that I made the right choice.	
M BADAM	To show a period of time extending from some point in the	They believed that they have used the right form of the verb.	
i Sang L'Y	past to the present, use the present perfect tense.	The Principal says that he will allow us to use his computer.	
	To show action to come, use the future tense.		
Simple	To show another completed past action, use the past tense.	I wanted to go home because I missed my parents.	
Past	To show an earlier action, use the past perfect tense.	She <i>knew</i> she <i>had</i> the right choice.	
	To state a general truth, use the present tense.	Scientists <i>knew</i> that the earth <i>attracts</i> everything towards its centre.	
Present Perfect	For any purpose, use the past tense.	She has grown five inches since she turned nine.	
or Past Perfect	Salat Cigi le Wiyay (24 1 p.)	The crowd had become restless before the ticket counter opened.	
Future	To show action happening at the same time, use the present tense.	I will be so happy if they fix my TV today.	
	To show an earlier action, use the past tense.	You will surely pass this exam if you studied hard.	
	To show future action the action of the independent clause, use the present perfect tense.	The college will probably close admissions next week if students have not paid their fees.	





D.3.1	Fill u	p the blanks with the corr	ect tense of the verb given in brackets.
	(a)		(can, could)
	(b)		_ the station, the train came. (reach, reached)
	(c)		you(try, tried).
	(d)		ntil she (come, came).
Territ	(e)		green leaves chlorophyll. (contain,
1	(f)	Peter said that it	_him an hour to reach the station. (take, took)
D.3.2 .	Fill ir		ct auxiliary verbs.
	(a)	Paras said that he	
	(b)	Sabiha told me that she _	
A	(c)	Parvez says that he	sing a Hindi song.
	(d)		buy a new bicycle.
E.	LET	"S TALK	
	Disc	uss the following in gr	coups or pairs:
		vater, no life.	
F.		position	
	Write a letter to your friend describing how water can be saved		
		ugh rain harvesting.	water can be saved
G.	TRA	NSLATION	
	Tran your	mother tongue.	aragraphs of the lesson in Hindi or
H.	ACT	IVITY	do no Historica de reporte de la

List some ways to save water.